

EPHEMERIDES

10 26.9

10 27.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
9161	Beaufort		10 26.9 333°58	9°2/19.3	18		411934	2012 GB ₁₀		10 26.9 270°81	0°6/26.4	18	
9 18	2 27.87	- 5 15.3	1.531	2.380	16.2	16.9	9 18	2 28.16	+14 25.6	2.300	3.101	13.0	21.5
9 28	2 25.29	- 6 57.4	1.466	2.371	13.3	16.7	9 28	2 24.71	+13 42.2	2.206	3.093	10.2	21.3
10 8	2 20.18	- 8 38.2	1.422	2.362	10.6	16.5	10 8	2 19.40	+12 47.4	2.135	3.084	7.0	21.1
10 18	2 13.14	-10 7.3	1.401	2.354	9.2	16.4	10 18	2 12.68	+11 44.1	2.090	3.075	3.3	20.9
10 28	2 5.15	-11 14.1	1.405	2.346	10.1	16.4	10 28	2 5.26	+10 36.7	2.074	3.066	0.9	20.7
11 7	1 57.40	-11 51.5	1.433	2.339	12.6	16.6	11 7	1 57.95	+ 9 30.6	2.087	3.058	4.6	20.9
11 17	1 50.96	-11 56.3	1.482	2.333	15.6	16.7	11 17	1 51.54	+ 8 31.4	2.129	3.049	8.2	21.1
11 27	1 46.69	-11 29.5	1.551	2.327	18.5	16.9	11 27	1 46.70	+ 7 43.7	2.197	3.040	11.4	21.3
515475	2014 AM ₂₆		10 26.9 291°47	2°8/28.9	18		82349	2001 LD ₁₉		10 27.0 143°67	1°9/28.6	18	
9 18	2 31.84	+21 31.7	1.529	2.329	18.6	22.0	9 18	2 34.83	+20 42.0	1.784	2.569	16.8	19.1
9 28	2 28.97	+21 30.4	1.432	2.310	15.2	21.7	9 28	2 30.49	+20 26.5	1.705	2.576	13.6	18.9
10 8	2 23.11	+21 9.6	1.353	2.292	11.1	21.4	10 8	2 23.59	+19 54.0	1.646	2.583	9.7	18.7
10 18	2 14.76	+20 28.3	1.296	2.273	6.5	21.1	10 18	2 14.77	+19 5.3	1.611	2.589	5.4	18.4
10 28	2 4.96	+19 28.7	1.265	2.255	2.9	20.9	10 28	2 5.04	+18 3.9	1.603	2.594	2.0	18.2
11 7	1 55.13	+18 17.2	1.259	2.236	5.7	21.0	11 7	1 55.60	+16 56.2	1.624	2.600	4.9	18.4
11 17	1 46.69	+17 2.8	1.280	2.218	10.7	21.2	11 17	1 47.55	+15 49.6	1.673	2.605	9.1	18.7
11 27	1 40.81	+15 55.6	1.324	2.200	15.3	21.5	11 27	1 41.73	+14 51.4	1.747	2.609	12.9	19.0
452999	2007 HG ₈₈		10 26.9 15°60	0°2/27.2	17		304942	2007 TK ₄		10 27.0 313°35	3°6/23.4	18	
9 18	2 28.09	+16 54.8	2.127	2.926	14.0	21.4	9 18	2 27.83	+10 43.7	1.741	2.569	15.5	20.4
9 28	2 24.77	+16 18.2	2.044	2.927	11.1	21.2	9 28	2 24.97	+ 8 51.5	1.660	2.564	12.0	20.2
10 8	2 19.46	+15 28.6	1.982	2.928	7.6	21.0	10 8	2 19.82	+ 6 43.6	1.602	2.559	8.1	19.9
10 18	2 12.68	+14 28.3	1.946	2.930	3.8	20.7	10 18	2 12.95	+ 4 27.6	1.570	2.555	4.4	19.7
10 28	2 5.22	+13 21.7	1.938	2.931	0.4	20.5	10 28	2 5.25	+ 2 14.0	1.567	2.550	4.2	19.7
11 7	1 57.95	+12 14.7	1.959	2.933	4.4	20.8	11 7	1 57.77	+ 0 13.6	1.593	2.546	7.8	19.9
11 17	1 51.69	+11 13.0	2.009	2.935	8.1	21.0	11 17	1 51.48	- 1 24.7	1.646	2.541	11.8	20.1
11 27	1 47.13	+10 22.0	2.084	2.937	11.5	21.2	11 27	1 47.15	- 2 36.0	1.722	2.537	15.3	20.3
295441	2008 LU ₁₅		10 26.9 71°20	7°4/22.7	16		27137	1998 XP ₂₇		10 27.0 68°56	1°0/26.4	18	
9 18	2 38.38	- 2 51.5	1.450	2.283	17.8	20.3	9 18	2 37.69	+11 5.5	1.453	2.274	18.3	17.5
9 28	2 33.09	- 3 51.5	1.411	2.310	14.1	20.2	9 28	2 33.01	+11 4.1	1.392	2.289	14.4	17.3
10 8	2 25.12	- 4 47.6	1.393	2.337	10.4	20.0	10 8	2 25.42	+10 53.6	1.350	2.303	9.7	17.1
10 18	2 15.33	- 5 32.0	1.398	2.364	7.7	19.9	10 18	2 15.66	+10 36.5	1.332	2.318	4.6	16.8
10 28	2 4.95	- 5 57.3	1.430	2.391	7.8	20.0	10 28	2 4.96	+10 17.1	1.340	2.333	1.3	16.7
11 7	1 55.29	- 5 59.5	1.487	2.417	10.3	20.2	11 7	1 54.74	+10 0.5	1.376	2.348	6.1	17.0
11 17	1 47.39	- 5 38.1	1.568	2.443	13.5	20.5	11 17	1 46.22	+ 9 51.5	1.437	2.363	10.8	17.3
11 27	1 41.97	- 4 55.0	1.671	2.469	16.4	20.8	11 27	1 40.30	+ 9 53.9	1.522	2.378	14.8	17.6
449003	2012 BX ₅₄		10 26.9 195°99	3°5/23.2	18		210674	2000 QO ₂₀₅		10 27.0 95°39	3°9/29.4	17	
9 18	2 29.43	+ 2 58.2	2.655	3.468	11.2	21.5	9 18	2 40.34	+22 3.2	1.446	2.233	20.0	20.4
9 28	2 25.29	+ 2 8.8	2.572	3.465	8.7	21.3	9 28	2 35.42	+22 33.0	1.380	2.248	16.3	20.2
10 8	2 19.57	+ 1 16.7	2.514	3.463	6.1	21.2	10 8	2 27.27	+22 44.8	1.332	2.263	11.9	20.0
10 18	2 12.68	+ 0 25.9	2.484	3.460	3.9	21.0	10 18	2 16.64	+22 36.6	1.306	2.278	7.3	19.8
10 28	2 5.23	- 0 19.1	2.483	3.457	3.8	21.0	10 28	2 4.85	+22 9.6	1.307	2.293	3.9	19.6
11 7	1 57.93	- 0 54.3	2.511	3.453	6.0	21.2	11 7	1 53.52	+21 29.1	1.333	2.307	6.0	19.8
11 17	1 51.41	- 1 16.8	2.568	3.450	8.6	21.3	11 17	1 44.07	+20 43.0	1.387	2.321	10.3	20.1
11 27	1 46.25	- 1 24.9	2.649	3.445	11.1	21.5	11 27	1 37.51	+19 59.9	1.464	2.335	14.4	20.4
38273	1999 RN ₄₂		10 26.9 73°03	2°9/24.8	18		421584	2014 OR ₁₉₇		10 27.0 343°68	4°4/30.7	17	
9 18	2 33.08	+ 5 2.7	2.108	2.923	13.6	18.8	9 18	2 31.07	+26 4.6	2.122	2.880	15.4	21.1
9 28	2 28.46	+ 4 43.3	2.039	2.934	10.6	18.7	9 28	2 27.43	+26 30.2	2.031	2.876	12.8	20.9
10 8	2 21.85	+ 4 20.9	1.993	2.945	7.2	18.5	10 8	2 21.50	+26 40.3	1.959	2.872	9.8	20.7
10 18	2 13.80	+ 3 59.0	1.973	2.955	4.0	18.3	10 18	2 13.80	+26 33.2	1.911	2.869	6.7	20.5
10 28	2 5.12	+ 3 41.6	1.982	2.966	3.2	18.3	10 28	2 5.16	+26 9.3	1.889	2.866	4.5	20.4
11 7	1 56.71	+ 3 32.4	2.019	2.977	5.9	18.5	11 7	1 56.61	+25 31.7	1.895	2.863	5.3	20.4
11 17	1 49.39	+ 3 33.8	2.084	2.988	9.2	18.7	11 17	1 49.15	+24 45.4	1.929	2.861	8.1	20.6
11 27	1 43.84	+ 3 47.6	2.174	2.998	12.2	18.9	11 27	1 43.60	+23 57.1	1.989	2.859	11.2	20.8
230195	2001 SA ₁₄₅		10 26.9 56°27	3°3/29.1	18		232931	2005 AF ₅₁		10 27.0 205°89	4°5/22.3	18	
9 18	2 35.37	+21 22.5	1.449	2.248	19.5	20.2	9 18	2 28.38	+ 0 16.7	2.447	3.269	11.8	20.5
9 28	2 31.48	+21 39.8	1.383	2.259	15.8	20.0	9 28	2 24.62	- 0 41.0	2.372	3.268	9.3	20.4
10 8	2 24.54	+21 38.8	1.334	2.271	11.5	19.8	10 8	2 19.19	- 1 39.8	2.321	3.267	6.7	20.2
10 18	2 15.29	+21 18.9	1.308	2.283	6.8	19.6	10 18	2 12.53	- 2 35.1	2.296	3.266	4.8	20.1
10 28	2 4.95	+20 42.3	1.307	2.296	3.3	19.4	10 28	2 5.31	- 3 21.5	2.300	3.265	5.0	20.1
11 7	1 55.02	+19 54.8	1.333	2.308	5.7	19.6	11 7	1 58.25	- 3 54.9	2.333	3.264	7.0	20.2
11 17	1 46.81	+19 4.5	1.384	2.321	10.1	19.9	11 17	1 52.05	- 4 12.5	2.392	3.263	9.6	20.4
11 27	1 41.29	+18 19.6	1.459	2.334	14.2	20.2	11 27	1 47.27	- 4 13.0	2.475	3.262	12.0	20.6
317923	2003 UJ ₃₃₈		10 26.9 103°84	1°0/25.9	18		388918	2008 SB ₁₂₁		10 27.0 105°56	1°1/27.8	18	
9 18	2 29.41	+12 10.6	2.425	3.226	12.4	21.5	9 18	2 34.79	+16 56.5	1.735	2.534	16.7	21.5
9 28	2 25.41	+11 35.5	2.349	3.237	9.7	21.3	9 28	2 30.52	+16 56.1	1.657	2.539	13.3	21.3
10 8	2 19.69	+10 52.2	2.297	3.247	6.5	21.2	10 8	2 23.67	+16 42.7	1.600	2.544	9.3	21.1
10 18	2 12.75	+10 3.8	2.271	3.257	3.1	21.0	10 18	2 14.84	+16 17.2	1.567	2.549	4.8	20.8
10 28	2 5.25	+ 9 14.0	2.274	3.266	1.2	20.8	10 28	2 5.05	+15 42.5	1.561	2.553	1.1	20.6
11 7	1 57.97	+ 8 27.4	2.308	3.276	4.4	21.1	11 7	1 55.52	+15 4.0	1.583	2.558	5.0	20.9
11 17	1 51.61	+ 7 48.1	2.370	3.285	7.7	21.3	11 17	1 47.36	+14 27.4	1.632	2.563	9.4	21.1
11 27	1 46.75	+ 7 19.4	2.458	3.295	10.5	21.5	11 27	1 41.45	+13 58.6	1.706	2.567	13.2	21.4
452905	2006 UE ₃₃₅		10 26.9 65°47	0°3/26.8	18		188969	2008 DH ₃₈		10 27.0 283°00	0°2/27.2	18	
9 18	2 32.88	+13 24.2	1.88										

EPHEMERIDES

10 27.0

10 27.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
221569	2006 <i>VD</i> ₂₀	10 27.0 219°49'			1°2/27.9 18			265520	2005 <i>MT</i> ₁₆	10 27.0 125°39'			1°9/28.5 17	
9 18	2 34.21	+18 21.4	1.690	2.488	17.1	21.6	9 18	2 35.79	+20 21.0	1.717	2.504	17.3	21.4	
9 28	2 30.28	+18 4.4	1.602	2.483	13.7	21.4	9 28	2 31.30	+20 8.0	1.642	2.515	13.9	21.2	
10 8	2 23.65	+17 31.3	1.535	2.479	9.7	21.1	10 8	2 24.18	+19 38.1	1.588	2.526	9.9	21.0	
10 18	2 14.90	+16 43.0	1.492	2.474	5.1	20.9	10 18	2 15.08	+18 52.1	1.557	2.536	5.4	20.7	
10 28	2 5.06	+15 43.5	1.476	2.468	1.2	20.6	10 28	2 5.08	+17 53.5	1.554	2.545	1.9	20.5	
11 7	1 55.39	+14 39.3	1.487	2.463	5.2	20.9	11 7	1 55.42	+16 48.9	1.579	2.554	5.0	20.7	
11 17	1 47.09	+13 38.0	1.526	2.457	9.9	21.1	11 17	1 47.24	+15 45.8	1.631	2.563	9.3	21.0	
11 27	1 41.10	+12 47.0	1.589	2.451	14.0	21.3	11 27	1 41.38	+14 51.3	1.708	2.571	13.1	21.3	
75507	1999 <i>XO</i> ₁₉₅	10 27.0 351°59'			4°2/29.1 18			119178	2001 <i>QW</i> ₆₆	10 27.0 74°06'			0°9/27.7 18	
9 18	2 33.73	+20 6.0	1.208	2.028	21.4	18.1	9 18	2 34.21	+18 7.0	1.505	2.313	18.4	19.9	
9 28	2 31.10	+20 56.3	1.133	2.023	17.5	17.8	9 28	2 30.25	+17 41.8	1.442	2.329	14.6	19.7	
10 8	2 24.91	+21 30.5	1.076	2.018	12.9	17.5	10 8	2 23.52	+16 59.5	1.399	2.346	10.1	19.4	
10 18	2 15.76	+21 45.5	1.039	2.015	7.9	17.3	10 18	2 14.75	+16 2.4	1.379	2.362	5.1	19.2	
10 28	2 4.96	+21 41.1	1.025	2.013	4.3	17.1	10 28	2 5.12	+14 55.9	1.385	2.379	0.9	18.9	
11 7	1 54.29	+21 21.1	1.035	2.011	6.8	17.2	11 7	1 55.97	+13 47.9	1.419	2.395	5.4	19.3	
11 17	1 45.48	+20 53.1	1.069	2.010	11.8	17.5	11 17	1 48.45	+12 46.2	1.479	2.411	10.0	19.6	
11 27	1 39.85	+20 26.3	1.124	2.011	16.5	17.8	11 27	1 43.38	+11 57.6	1.563	2.427	14.0	19.9	
169773	2002 <i>PM</i> ₉₀	10 27.0 118°09'			4°4/31.4 18			249714	2000 <i>QQ</i> ₁₄₃	10 27.0 39°95'			5°7/23.9 18	
9 18	2 32.98	+29 11.5	2.048	2.790	16.3	20.0	9 18	2 32.71	+ 6 3.8	0.944	1.812	22.3	19.0	
9 28	2 28.84	+29 0.1	1.966	2.799	13.6	19.8	9 28	2 29.91	+ 4 49.7	0.911	1.834	17.3	18.8	
10 8	2 22.36	+28 27.9	1.902	2.809	10.5	19.6	10 8	2 23.58	+ 3 28.2	0.895	1.859	11.7	18.6	
10 18	2 14.15	+27 34.1	1.863	2.818	7.1	19.4	10 18	2 14.77	+ 2 9.7	0.899	1.884	6.8	18.5	
10 28	2 5.16	+26 20.9	1.850	2.827	4.6	19.3	10 28	2 5.14	+ 1 6.0	0.927	1.910	6.2	18.5	
11 7	1 56.48	+24 53.8	1.867	2.835	5.2	19.3	11 7	1 56.41	+ 0 26.1	0.977	1.936	10.3	18.8	
11 17	1 49.09	+23 20.6	1.911	2.844	8.1	19.5	11 17	1 49.93	+ 0 14.0	1.048	1.964	15.0	19.2	
11 27	1 43.75	+21 49.9	1.983	2.852	11.3	19.8	11 27	1 46.50	+ 0 29.3	1.139	1.992	19.0	19.5	
332437	2007 <i>VV</i> ₄₈	10 27.0 22°91'			2°8/29.2 18			517963	2015 <i>TM</i> ₃₆₄	10 27.0 166°78'			4°8/22.5 18	
9 18	2 31.72	+21 57.1	1.747	2.535	17.0	21.0	9 18	2 31.03	- 1 39.8	2.447	3.263	11.9	21.4	
9 28	2 28.22	+21 57.6	1.666	2.537	13.8	20.8	9 28	2 26.66	- 2 21.9	2.373	3.264	9.4	21.3	
10 8	2 22.17	+21 41.0	1.605	2.539	10.1	20.6	10 8	2 20.56	- 3 3.1	2.323	3.265	6.9	21.1	
10 18	2 14.15	+21 7.1	1.567	2.542	6.0	20.4	10 18	2 13.22	- 3 39.0	2.300	3.266	5.1	21.0	
10 28	2 5.16	+20 18.5	1.556	2.544	2.8	20.2	10 28	2 5.30	- 4 5.1	2.305	3.267	5.2	21.0	
11 7	1 56.40	+19 20.8	1.572	2.547	5.0	20.3	11 7	1 57.57	- 4 17.9	2.339	3.268	7.1	21.1	
11 17	1 48.97	+18 21.0	1.615	2.550	9.0	20.6	11 17	1 50.73	- 4 15.3	2.400	3.269	9.7	21.3	
11 27	1 43.75	+17 26.7	1.682	2.554	12.8	20.8	11 27	1 45.39	- 3 56.9	2.485	3.270	12.0	21.5	
193426	2000 <i>WL</i> ₉₃	10 27.0 341°34'			1°9/28.4 18			214061	2004 <i>FY</i> ₉₄	10 27.0 145°25'			0°9/26.3 18	
9 18	2 31.76	+19 33.7	1.622	2.424	17.6	19.7	9 18	2 35.83	+10 19.8	2.344	3.138	13.0	21.1	
9 28	2 28.46	+19 28.5	1.540	2.422	14.2	19.5	9 28	2 30.51	+10 17.5	2.263	3.146	10.2	20.9	
10 8	2 22.46	+19 6.7	1.477	2.419	10.1	19.2	10 8	2 23.25	+10 9.5	2.206	3.153	6.9	20.7	
10 18	2 14.34	+18 28.8	1.437	2.417	5.6	19.0	10 18	2 14.54	+ 9 57.6	2.175	3.160	3.3	20.5	
10 28	2 5.14	+17 37.9	1.424	2.415	1.9	18.7	10 28	2 5.15	+ 9 44.4	2.175	3.167	1.1	20.4	
11 7	1 56.13	+16 40.3	1.437	2.414	5.2	18.9	11 7	1 55.97	+ 9 33.2	2.204	3.173	4.5	20.6	
11 17	1 48.52	+15 43.5	1.477	2.412	9.7	19.2	11 17	1 47.81	+ 9 27.0	2.263	3.179	8.0	20.8	
11 27	1 43.24	+14 54.9	1.541	2.411	13.8	19.4	11 27	1 41.34	+ 9 28.3	2.349	3.185	11.0	21.1	
128713	2004 <i>RJ</i> ₁₁₂	10 27.0 20°05'			13°3/ 9.1 17			518590	2007 <i>VS</i> ₇₉	10 27.0 274°20'			1°5/28.4 18	
9 18	2 32.66	+44 5.4	1.481	2.170	23.5	18.4	9 18	2 30.91	+20 2.5	2.020	2.806	15.1	21.7	
9 28	2 30.44	+45 42.3	1.425	2.186	21.3	18.3	9 28	2 27.39	+19 42.2	1.915	2.788	12.2	21.5	
10 8	2 24.49	+46 47.5	1.383	2.204	18.8	18.2	10 8	2 21.56	+19 6.1	1.831	2.769	8.7	21.2	
10 18	2 15.50	+47 13.3	1.356	2.223	16.3	18.1	10 18	2 13.89	+18 14.8	1.771	2.750	4.8	20.9	
10 28	2 5.01	+46 55.3	1.349	2.243	13.3	18.0	10 28	2 5.21	+17 11.3	1.739	2.731	1.5	20.7	
11 7	1 54.96	+45 55.7	1.361	2.265	13.3	18.0	11 7	1 56.54	+16 1.2	1.736	2.712	4.6	20.9	
11 17	1 47.08	+44 23.2	1.396	2.288	13.7	18.1	11 17	1 48.92	+14 51.4	1.761	2.692	8.7	21.1	
11 27	1 42.56	+42 31.2	1.452	2.312	15.2	18.3	11 27	1 43.20	+13 49.0	1.812	2.673	12.6	21.3	
78047	2002 <i>JV</i> ₁₂₃	10 27.0 110°33'			3°0/23.8 18			321523	2009 <i>SS</i> ₂₃₂	10 27.0 41°16'			3°4/24.2 18	
9 18	2 28.96	+ 6 16.7	2.426	3.240	12.1	20.6	9 18	2 29.85	+ 5 50.5	1.832	2.661	14.8	20.2	
9 28	2 25.01	+ 5 17.4	2.356	3.252	9.3	20.4	9 28	2 26.23	+ 5 5.1	1.773	2.676	11.4	20.0	
10 8	2 19.41	+ 4 13.1	2.311	3.263	6.3	20.3	10 8	2 20.48	+ 4 15.0	1.735	2.691	7.8	19.8	
10 18	2 12.63	+ 3 8.3	2.293	3.274	3.6	20.1	10 18	2 13.21	+ 3 25.0	1.723	2.706	4.4	19.6	
10 28	2 5.34	+ 2 8.0	2.304	3.284	3.3	20.1	10 28	2 5.31	+ 2 41.0	1.739	2.722	3.8	19.6	
11 7	1 58.29	+ 1 17.0	2.344	3.295	5.8	20.3	11 7	1 57.76	+ 2 8.3	1.782	2.738	6.8	19.8	
11 17	1 52.13	+ 0 39.1	2.413	3.305	8.6	20.5	11 17	1 51.42	+ 1 50.3	1.851	2.755	10.2	20.1	
11 27	1 47.43	+ 0 16.3	2.506	3.315	11.2	20.7	11 27	1 46.95	+ 1 49.0	1.944	2.771	13.3	20.3	
278532	2008 <i>EC</i> ₄₆	10 27.0 260°58'			6°1/21.7 17			234696	2002 <i>GW</i> ₁₂₉	10 27.0 153°08'			0°1/26.9 18 R	
9 18	2 30.15	+11 52.9	1.135	1.985	20.5	20.5	9 18	2 33.90	+14 40.7	1.954	2.753	15.1	21.3	
9 28	2 27.96	+ 8 56.4	1.064	1.982	16.0	20.2	9 28	2 29.48	+14 22.2	1.873	2.757	11.9	21.1	
10 8	2 22.47	+ 5 30.8	1.015	1.978	10.8	19.9	10 8	2 22.79	+13 52.6	1.814	2.761	8.2	20.9	
10 18	2 14.42	+ 1 50.6	0.991	1.974	6.6	19.7	10 18	2 14.39	+13 13.8	1.781	2.765	4.0	20.6	
10 28	2 5.14	- 1 42.4	0.993	1.970	7.4	19.7	10 28	2 5.18	+12 29.8	1.775	2.769	0.5	20.4	
11 7	1 56.25	- 4 46.1	1.022	1.966	12.2	19.9	11 7	1 56.19	+11 45.8	1.799	2.772	4.8	20.7	
11 17	1 49.19	- 7 5.8	1.074	1.963	17.2	20.2	11 17	1 48.39	+11 7.0	1.850	2.775	8.9	21.0	
11 27	1 45.00	- 8 36.3	1.146	1.959	21.5	20.5	11 27	1 42.57	+10 38.2	1.927	2.777	12.4	21.2	
95601	2002 <i>FJ</i> ₂₈	10 27.0 154°40'			4°1/23.4 18			72066	2000 <i>YX</i> ₂₁	10 27.0 188°09'			8°2/20.8 18	
9 18	2													

EPHEMERIDES

10 27.0

10 27.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
442535	2011 <i>WA</i> ₁₃₈	10 27.0 259°60		1.3°/28.1 15			78694	2002 <i>TN</i> ₁₆₈	10 27.0 86°49		6°0/ 1.6 18		
9 18	2 32.39	+18 2.7	1.997	2.788	15.1	22.1	9 18	2 36.04	+31 35.3	1.968	2.695	17.3	19.2
9 28	2 28.42	+18 0.2	1.908	2.784	12.1	21.9	9 28	2 31.42	+31 59.7	1.896	2.713	14.7	19.1
10 8	2 22.16	+17 45.1	1.840	2.781	8.5	21.6	10 8	2 24.24	+32 3.1	1.842	2.731	11.6	18.9
10 18	2 14.13	+17 18.1	1.797	2.777	4.6	21.4	10 18	2 15.14	+31 43.3	1.811	2.749	8.6	18.8
10 28	2 5.20	+16 41.8	1.781	2.773	1.3	21.2	10 28	2 5.19	+31 0.4	1.805	2.767	6.3	18.7
11 7	1 56.41	+16 0.7	1.794	2.770	4.5	21.4	11 7	1 55.59	+29 58.9	1.827	2.785	6.4	18.7
11 17	1 48.73	+15 20.1	1.835	2.766	8.5	21.6	11 17	1 47.45	+28 45.6	1.877	2.802	8.7	18.9
11 27	1 42.98	+14 45.7	1.902	2.762	12.1	21.8	11 27	1 41.57	+27 29.3	1.952	2.820	11.5	19.1
296658	2009 <i>SS</i> ₁₄₃	10 27.0		83°63 0°8/27.6 18			84362	2002 <i>TQ</i> ₉₀	10 27.0 348°73		3°4/29.6 18		
9 18	2 35.74	+16 7.1	1.530	2.339	18.1	21.0	9 18	2 32.12	+22 31.5	1.743	2.528	17.2	19.6
9 28	2 31.59	+16 6.3	1.457	2.345	14.4	20.8	9 28	2 28.68	+22 47.1	1.658	2.525	14.1	19.4
10 8	2 24.58	+15 51.8	1.404	2.352	10.0	20.5	10 8	2 22.61	+22 46.2	1.592	2.523	10.4	19.2
10 18	2 15.37	+15 24.7	1.375	2.358	5.1	20.3	10 18	2 14.47	+22 27.9	1.550	2.521	6.4	19.0
10 28	2 5.10	+14 48.6	1.371	2.365	0.9	20.0	10 28	2 5.25	+21 53.4	1.533	2.520	3.5	18.8
11 7	1 55.15	+14 9.6	1.395	2.371	5.5	20.3	11 7	1 56.19	+21 7.6	1.544	2.518	5.2	18.9
11 17	1 46.76	+13 34.0	1.446	2.377	10.2	20.6	11 17	1 48.43	+20 16.8	1.581	2.517	9.2	19.1
11 27	1 40.89	+13 8.0	1.520	2.384	14.4	20.9	11 27	1 42.94	+19 28.8	1.643	2.517	13.0	19.3
449840	2014 <i>QP</i> ₃₄₁	10 27.0		94°60 4°2/22.8 18			2983	<i>Poltava</i>	10 27.0 53°05		1°3/28.2 18		<i>R</i>
9 18	2 29.35	+ 2 32.9	2.259	3.081	12.6	21.3	9 18	2 30.69	+19 3.5	1.946	2.739	15.4	15.9
9 28	2 25.44	+ 1 28.0	2.195	3.093	9.8	21.1	9 28	2 27.06	+18 45.9	1.867	2.744	12.3	15.7
10 8	2 19.77	+ 0 20.6	2.155	3.104	6.9	20.9	10 8	2 21.20	+18 13.9	1.808	2.749	8.6	15.5
10 18	2 12.84	- 0 44.2	2.141	3.115	4.6	20.8	10 18	2 13.67	+17 28.7	1.773	2.754	4.6	15.2
10 28	2 5.38	- 1 40.6	2.156	3.127	4.7	20.8	10 28	2 5.35	+16 34.0	1.766	2.759	1.3	15.0
11 7	1 58.18	- 2 23.9	2.199	3.138	6.9	21.0	11 7	1 57.26	+15 35.3	1.788	2.764	4.4	15.3
11 17	1 51.95	- 2 50.8	2.270	3.149	9.7	21.2	11 17	1 50.34	+14 38.9	1.837	2.769	8.4	15.5
11 27	1 47.27	- 3 0.1	2.364	3.160	12.3	21.4	11 27	1 45.35	+13 50.7	1.912	2.775	11.9	15.7
114380	2002 <i>XE</i> ₁₀₉	10 27.0		67°24 0°8/26.5 18			514474	2016 <i>UL</i> ₁₄₈	10 27.0 262°98		2°4/25.3 18		
9 18	2 36.18	+10 56.0	1.797	2.606	15.8	19.4	9 18	2 33.75	+ 7 54.3	1.834	2.652	15.2	21.0
9 28	2 31.29	+10 57.6	1.732	2.622	12.4	19.2	9 28	2 29.62	+ 7 31.0	1.747	2.644	11.9	20.7
10 8	2 24.01	+10 51.8	1.688	2.638	8.4	19.0	10 8	2 23.07	+ 7 1.1	1.682	2.636	8.1	20.5
10 18	2 14.97	+10 40.7	1.669	2.655	4.0	18.8	10 18	2 14.65	+ 6 28.2	1.643	2.627	4.2	20.3
10 28	2 5.17	+10 27.6	1.678	2.671	1.1	18.6	10 28	2 5.25	+ 5 57.0	1.630	2.619	2.7	20.1
11 7	1 55.73	+10 16.4	1.716	2.687	5.2	19.0	11 7	1 55.97	+ 5 32.7	1.646	2.611	6.3	20.4
11 17	1 47.67	+10 11.0	1.781	2.704	9.3	19.2	11 17	1 47.87	+ 5 19.5	1.689	2.602	10.4	20.6
11 27	1 41.74	+10 14.4	1.871	2.720	12.8	19.5	11 27	1 41.81	+ 5 20.6	1.756	2.593	14.0	20.8
257480	1995 <i>NR</i>	10 27.0		179°93 7°7/17.7 18			267926	2004 <i>DU</i> ₃₃	10 27.0 236°77		3°2/24.6 18		
9 18	2 32.88	-18 38.3	3.142	3.918	10.4	21.4	9 18	2 34.10	+ 7 45.6	1.814	2.633	15.3	21.4
9 28	2 27.69	-19 31.2	3.084	3.919	9.1	21.3	9 28	2 29.95	+ 6 55.2	1.724	2.621	12.1	21.2
10 8	2 21.06	-20 14.6	3.049	3.920	8.1	21.3	10 8	2 23.34	+ 5 56.0	1.655	2.609	8.3	21.0
10 18	2 13.43	-20 43.9	3.040	3.920	7.7	21.2	10 18	2 14.80	+ 4 52.6	1.612	2.596	4.4	20.7
10 28	2 5.36	-20 55.4	3.057	3.920	8.2	21.3	10 28	2 5.23	+ 3 51.5	1.597	2.582	3.6	20.6
11 7	1 57.50	-20 47.0	3.101	3.920	9.2	21.3	11 7	1 55.76	+ 2 59.7	1.610	2.568	7.1	20.8
11 17	1 50.42	-20 18.7	3.169	3.918	10.5	21.4	11 17	1 47.47	+ 2 22.7	1.650	2.554	11.2	21.0
11 27	1 44.63	-19 32.0	3.258	3.917	11.8	21.5	11 27	1 41.25	+ 2 4.5	1.713	2.539	14.9	21.2
55503	2001 <i>UC</i> ₁₀₀	10 27.0		185°54 4°2/23.7 18			372865	2010 <i>VG</i> ₂₁₆	10 27.0 318°29		1°8/28.1 18		
9 18	2 34.04	+ 0 40.3	2.271	3.084	12.8	19.3	9 18	2 30.73	+18 31.7	1.241	2.069	20.5	21.4
9 28	2 29.19	+ 0 12.2	2.193	3.084	10.1	19.1	9 28	2 28.66	+18 31.4	1.157	2.054	16.6	21.1
10 8	2 22.40	- 0 16.1	2.138	3.084	7.2	18.9	10 8	2 23.25	+18 11.8	1.091	2.041	11.9	20.8
10 18	2 14.17	- 0 40.7	2.109	3.083	4.7	18.8	10 18	2 15.03	+17 32.6	1.045	2.028	6.4	20.4
10 28	2 5.28	- 0 57.1	2.109	3.082	4.5	18.8	10 28	2 5.20	+16 37.5	1.023	2.015	1.8	20.1
11 7	1 56.57	- 1 1.9	2.139	3.081	6.8	18.9	11 7	1 55.43	+15 34.3	1.025	2.003	6.4	20.4
11 17	1 48.86	- 0 53.1	2.195	3.080	9.7	19.1	11 17	1 47.33	+14 33.0	1.051	1.992	12.1	20.6
11 27	1 42.81	- 0 29.7	2.277	3.079	12.5	19.3	11 27	1 42.17	+13 43.5	1.099	1.982	17.2	20.9
483885	2005 <i>YJ</i> ₂₄₆	10 27.0		216°80 5°0/21.5 18			47887	2000 <i>FY</i> ₄₂	10 27.0 261°58		2°5/24.6 18		
9 18	2 28.85	- 1 31.0	2.581	3.399	11.3	21.8	9 18	2 29.19	+ 6 37.3	2.448	3.261	12.0	19.3
9 28	2 24.95	- 2 36.0	2.502	3.394	9.0	21.7	9 28	2 25.38	+ 6 0.7	2.359	3.253	9.4	19.1
10 8	2 19.43	- 3 41.5	2.447	3.389	6.7	21.5	10 8	2 19.82	+ 5 19.3	2.294	3.246	6.4	18.9
10 18	2 12.72	- 4 42.5	2.420	3.383	5.1	21.4	10 18	2 12.96	+ 4 36.3	2.255	3.238	3.5	18.8
10 28	2 5.44	- 5 33.7	2.421	3.377	5.4	21.4	10 28	2 5.45	+ 3 56.1	2.245	3.230	2.8	18.7
11 7	1 58.29	- 6 10.9	2.451	3.371	7.3	21.5	11 7	1 58.04	+ 3 22.8	2.265	3.222	5.5	18.9
11 17	1 51.93	- 6 31.3	2.507	3.365	9.7	21.7	11 17	1 51.46	+ 3 0.1	2.313	3.214	8.5	19.0
11 27	1 46.94	- 6 33.9	2.587	3.358	12.0	21.8	11 27	1 46.34	+ 2 50.2	2.386	3.206	11.4	19.2
68147	2001 <i>AW</i> ₄₄	10 27.0		117°83 5°6/ 2.3 18			220545	2004 <i>FE</i> ₁₄₂	10 27.0 187°71		0°5/26.7 18		
9 18	2 35.40	+33 44.0	2.764	3.452	13.6	18.8	9 18	2 34.84	+14 26.3	1.926	2.725	15.3	21.3
9 28	2 30.27	+34 16.5	2.681	3.467	11.7	18.7	9 28	2 30.32	+13 55.4	1.840	2.724	12.1	21.1
10 8	2 23.15	+34 32.9	2.618	3.482	9.5	18.5	10 8	2 23.46	+13 12.3	1.776	2.724	8.3	20.9
10 18	2 14.55	+34 31.2	2.578	3.497	7.4	18.4	10 18	2 14.80	+12 19.5	1.737	2.722	4.0	20.6
10 28	2 5.24	+34 10.9	2.566	3.511	5.8	18.3	10 28	2 5.26	+11 21.6	1.727	2.720	0.8	20.4
11 7	1 56.12	+33 34.1	2.582	3.525	5.8	18.4	11 7	1 55.91	+10 24.7	1.746	2.718	5.1	20.7
11 17	1 48.02	+32 45.1	2.627	3.539	7.2	18.5	11 17	1 47.76	+ 9 34.7	1.793	2.714	9.3	21.0
11 27	1 41.62	+31 49.5	2.699	3.552	9.2	18.6	11 27	1 41.64	+ 8 56.9	1.865	2.710	13.0	21.2
350503	1999 <i>XX</i> ₈	10 27.0		335°52 21°4/16.5 18			218420	2004 <i>RO</i> ₁₃₇	10 27.0 352°33		6°9/ 1.9 18		
9 18	2 53.7												

EPHEMERIDES

10 27.0

10 27.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
487971	2015 <i>TW</i> ₃₀₃	10 27.0 357°24		0°6/27.4 18			29159	1989 <i>GB</i>	10 27.1 179°61		1°2/26.4 18		
9 18	2 36.05	+13 9.2	1.904	2.705	15.4	20.5	9 18	2 39.82	+9 32.0	1.741	2.547	16.4	18.0
9 28	2 31.38	+13 38.3	1.820	2.703	12.2	20.3	9 28	2 34.50	+9 40.1	1.659	2.548	12.9	17.8
10 8	2 24.27	+14 0.4	1.756	2.702	8.5	20.1	10 8	2 26.48	+9 42.4	1.599	2.548	8.8	17.5
10 18	2 15.24	+14 15.9	1.718	2.701	4.2	19.8	10 18	2 16.35	+9 40.4	1.563	2.549	4.3	17.3
10 28	2 5.21	+14 25.9	1.708	2.701	0.6	19.5	10 28	2 5.15	+9 37.4	1.556	2.548	1.4	17.1
11 7	1 55.30	+14 33.1	1.727	2.701	4.8	19.9	11 7	1 54.15	+9 36.7	1.578	2.548	5.8	17.4
11 17	1 46.59	+14 40.6	1.773	2.702	8.9	20.1	11 17	1 44.54	+9 42.1	1.627	2.547	10.2	17.6
11 27	1 39.96	+14 52.1	1.845	2.702	12.6	20.3	11 27	1 37.26	+9 56.7	1.701	2.546	14.0	17.9
397380	2006 <i>UV</i> ₃₅₉	10 27.0 116°18		0°8/26.2 18			405773	2005 <i>YX</i> ₂₅₂	10 27.1 139°79		3°8/30.8 18		
9 18	2 30.89	+14 32.7	2.208	3.006	13.6	21.5	9 18	2 32.21	+26 28.2	2.441	3.184	13.9	21.0
9 28	2 26.76	+13 35.2	2.134	3.019	10.6	21.3	9 28	2 27.97	+26 41.7	2.351	3.187	11.6	20.9
10 8	2 20.74	+12 26.3	2.083	3.032	7.1	21.1	10 8	2 21.71	+26 40.4	2.281	3.190	8.8	20.7
10 18	2 13.37	+11 9.5	2.060	3.045	3.4	20.9	10 18	2 13.94	+26 23.5	2.237	3.193	6.0	20.5
10 28	2 5.43	+9 50.1	2.065	3.057	1.1	20.8	10 28	2 5.41	+25 51.8	2.220	3.196	4.0	20.4
11 7	1 57.78	+8 34.3	2.101	3.070	4.7	21.1	11 7	1 57.03	+25 8.3	2.232	3.199	4.6	20.5
11 17	1 51.17	+7 27.9	2.165	3.081	8.3	21.3	11 17	1 49.63	+24 17.9	2.273	3.202	7.2	20.6
11 27	1 46.24	+6 35.1	2.256	3.093	11.3	21.5	11 27	1 43.93	+23 26.4	2.340	3.205	10.0	20.8
103508	2000 <i>BV</i> ₁	10 27.0 12°82		0°7/25.8 18			222423	2001 <i>KF</i> ₇₁	10 27.1 133°00		2°4/24.9 18		
9 18	2 22.45	+10 27.0	4.358	5.152	7.4	20.1	9 18	2 31.56	+5 53.0	2.521	3.328	11.9	20.1
9 28	2 19.35	+10 4.3	4.268	5.153	5.8	20.0	9 28	2 27.08	+5 31.6	2.443	3.333	9.2	20.0
10 8	2 15.34	+9 37.9	4.204	5.153	3.9	19.8	10 8	2 20.89	+5 7.0	2.388	3.338	6.3	19.8
10 18	2 10.68	+9 9.3	4.168	5.154	1.8	19.7	10 18	2 13.47	+4 42.0	2.360	3.343	3.4	19.6
10 28	2 5.71	+8 40.4	4.163	5.154	0.9	19.6	10 28	2 5.47	+4 20.1	2.362	3.347	2.6	19.6
11 7	2 0.82	+8 13.3	4.188	5.155	2.7	19.8	11 7	1 57.65	+4 4.6	2.393	3.352	5.1	19.7
11 17	1 56.35	+7 50.0	4.244	5.155	4.7	19.9	11 17	1 50.71	+3 58.1	2.453	3.356	8.1	19.9
11 27	1 52.63	+7 32.1	4.327	5.156	6.5	20.0	11 27	1 45.22	+4 2.4	2.539	3.360	10.8	20.1
349837	2009 <i>CU</i> ₃₃	10 27.0 167°78		2°6/24.9 18			104036	2000 <i>EJ</i> ₄	10 27.1 105°44		0°1/27.1 18		
9 18	2 32.21	+7 52.9	1.996	2.812	14.2	21.2	9 18	2 33.34	+15 15.7	2.012	2.808	14.8	20.2
9 28	2 28.08	+7 13.8	1.918	2.814	11.1	21.0	9 28	2 28.94	+14 56.3	1.938	2.820	11.7	20.0
10 8	2 21.82	+6 28.1	1.862	2.815	7.5	20.7	10 8	2 22.38	+14 25.9	1.886	2.832	8.0	19.8
10 18	2 13.97	+5 39.6	1.832	2.816	3.9	20.5	10 18	2 14.25	+13 46.4	1.860	2.844	3.9	19.6
10 28	2 5.36	+4 53.6	1.830	2.817	2.9	20.5	10 28	2 5.40	+13 1.6	1.862	2.855	0.4	19.3
11 7	1 56.97	+4 15.4	1.857	2.818	6.1	20.7	11 7	1 56.84	+12 16.7	1.893	2.867	4.6	19.7
11 17	1 49.67	+3 49.3	1.911	2.818	9.7	20.9	11 17	1 49.46	+11 36.7	1.952	2.878	8.4	19.9
11 27	1 44.22	+3 38.2	1.990	2.819	13.0	21.1	11 27	1 43.96	+11 6.2	2.037	2.888	11.8	20.2
398234	2010 <i>RG</i> ₁₇	10 27.0 18°63		4°8/22.6 18			99005	2001 <i>DH</i> ₅₂	10 27.1 322°86		0°3/26.9 18		
9 18	2 26.48	+6 29.2	1.629	2.471	15.7	20.3	9 18	2 32.74	+12 35.1	1.467	2.293	17.9	18.8
9 28	2 23.99	+4 48.5	1.565	2.476	12.2	20.1	9 28	2 29.65	+12 40.8	1.379	2.279	14.3	18.5
10 8	2 19.21	+2 58.6	1.523	2.481	8.4	19.9	10 8	2 23.60	+12 36.4	1.311	2.265	9.9	18.2
10 18	2 12.73	+1 7.5	1.506	2.487	5.3	19.7	10 18	2 15.13	+12 23.3	1.266	2.252	4.8	17.9
10 28	2 5.51	-0 34.7	1.517	2.493	5.4	19.7	10 28	2 5.29	+12 5.0	1.246	2.239	0.7	17.5
11 7	1 58.59	-1 59.1	1.554	2.500	8.6	19.9	11 7	1 55.47	+11 46.6	1.252	2.227	6.1	17.9
11 17	1 52.91	-2 59.6	1.616	2.507	12.2	20.2	11 17	1 47.06	+11 33.6	1.284	2.216	11.2	18.2
11 27	1 49.21	-3 33.5	1.700	2.515	15.4	20.4	11 27	1 41.18	+11 31.4	1.338	2.205	15.7	18.4
33195	Davenyadav	10 27.0 203°71		1°9/28.6 18			25540	1999 <i>XQ</i> ₁₅₉	10 27.1 26°84		6°5/23.4 18		
9 18	2 34.10	+19 52.5	1.962	2.745	15.6	18.5	9 18	2 32.73	+1 42.4	1.186	2.042	19.5	17.2
9 28	2 29.86	+19 48.2	1.872	2.742	12.6	18.3	9 28	2 29.68	+0 46.5	1.133	2.049	15.4	17.0
10 8	2 23.22	+19 29.5	1.803	2.739	9.0	18.1	10 8	2 23.48	-0 11.8	1.099	2.056	10.9	16.8
10 18	2 14.73	+18 56.8	1.759	2.736	5.0	17.8	10 18	2 14.92	-1 4.1	1.086	2.065	7.2	16.6
10 28	2 5.30	+18 12.5	1.742	2.733	1.9	17.6	10 28	2 5.34	-1 41.0	1.098	2.074	7.0	16.6
11 7	1 56.00	+17 21.5	1.754	2.729	4.6	17.8	11 7	1 56.26	-1 55.5	1.133	2.084	10.4	16.8
11 17	1 47.90	+16 29.9	1.794	2.726	8.6	18.0	11 17	1 49.01	-1 44.8	1.191	2.094	14.6	17.1
11 27	1 41.82	+15 44.0	1.860	2.721	12.3	18.3	11 27	1 44.52	-1 9.4	1.268	2.105	18.4	17.4
447218	2005 <i>TP</i> ₁₇₁	10 27.1 352°72		3°0/30.1 18			403435	2009 <i>SM</i> ₁₉₂	10 27.1 7°93		7°1/ 1.2 17		
9 18	2 25.06	+26 51.4	1.611	2.397	18.3	19.9	9 18	2 33.00	+29 35.6	1.734	2.487	18.4	20.2
9 28	2 23.33	+25 59.5	1.524	2.392	15.1	19.6	9 28	2 29.68	+30 39.1	1.654	2.489	15.7	20.0
10 8	2 19.02	+24 39.9	1.456	2.387	11.2	19.4	10 8	2 23.50	+31 23.9	1.593	2.492	12.6	19.8
10 18	2 12.74	+22 53.4	1.410	2.383	6.8	19.1	10 18	2 15.02	+31 46.0	1.553	2.495	9.5	19.7
10 28	2 5.51	+20 45.6	1.391	2.379	3.2	18.9	10 28	2 5.31	+31 43.4	1.538	2.499	7.3	19.6
11 7	1 58.53	+18 26.7	1.400	2.377	5.1	19.0	11 7	1 55.72	+31 18.4	1.548	2.505	7.5	19.6
11 17	1 52.91	+16 9.2	1.435	2.376	9.5	19.3	11 17	1 47.56	+30 36.6	1.584	2.511	9.9	19.7
11 27	1 49.50	+14 4.9	1.497	2.376	13.6	19.5	11 27	1 41.86	+29 46.8	1.643	2.517	12.9	19.9
13179	Johncochrane	10 27.1 170°78		0°3/26.7 18			492254	2013 <i>VK</i> ₂₀	10 27.1 345°84		0°5/26.8 18		
9 18	2 30.04	+13 42.9	2.695	3.485	11.6	19.3	9 18	2 29.65	+12 53.0	1.120	1.970	20.7	21.0
9 28	2 25.85	+13 18.2	2.608	3.488	9.1	19.1	9 28	2 27.93	+12 53.4	1.047	1.960	16.5	20.7
10 8	2 20.05	+12 45.6	2.544	3.490	6.2	18.9	10 8	2 22.79	+12 40.2	0.992	1.952	11.4	20.4
10 18	2 13.06	+12 6.8	2.507	3.491	3.0	18.7	10 18	2 14.83	+12 15.5	0.957	1.944	5.6	20.1
10 28	2 5.50	+11 25.0	2.500	3.493	0.6	18.5	10 28	2 5.34	+11 44.6	0.945	1.938	0.9	19.8
11 7	1 58.08	+10 44.0	2.523	3.494	3.8	18.8	11 7	1 56.01	+11 14.8	0.957	1.934	7.0	20.2
11 17	1 51.47	+10 7.5	2.575	3.495	7.0	19.0	11 17	1 48.47	+10 53.7	0.991	1.930	12.9	20.5
11 27	1 46.23	+9 38.9	2.655	3.495	9.7	19.2	11 27	1 43.97	+10 47.6	1.046	1.928	17.9	20.8
120414	4880 <i>P-L</i>	10 27.1 59°99		3°7/29.2 16			469855	2005 <i>UU</i> ₉	10 27.1 341°38		0°0/27.1 18		
9 18	2 45.71												

EPHEMERIDES

10 27.1

10 27.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
319110	2005 <i>XW</i> ₁₃	10 27.1 112°87'	1°0/28.1 18				109186	2001 <i>QB</i> ₇₀	10 27.1 357°06'	5°3/30.4 18			
9 18	2 30.15	+19 10.2	2.345	3.125	13.4	20.8	9 18	2 32.06	+24 49.1	1.336	2.135	20.8	19.2
9 28	2 26.21	+18 40.8	2.263	3.134	10.7	20.6	9 28	2 29.55	+25 23.4	1.260	2.132	17.3	19.0
10 8	2 20.41	+17 58.6	2.204	3.143	7.5	20.4	10 8	2 23.76	+25 36.4	1.200	2.130	13.2	18.7
10 18	2 13.27	+17 5.1	2.171	3.151	3.9	20.2	10 18	2 15.27	+25 25.1	1.162	2.129	8.7	18.5
10 28	2 5.52	+16 3.9	2.167	3.160	1.0	20.0	10 28	2 5.35	+24 49.8	1.146	2.128	5.5	18.3
11 7	1 57.99	+15 0.1	2.193	3.168	3.8	20.3	11 7	1 55.62	+23 55.8	1.155	2.129	6.8	18.4
11 17	1 51.44	+13 58.9	2.247	3.176	7.3	20.5	11 17	1 47.62	+22 52.1	1.189	2.130	10.9	18.6
11 27	1 46.50	+13 5.5	2.329	3.184	10.4	20.7	11 27	1 42.52	+21 49.6	1.245	2.132	15.3	18.9
40042	1998 <i>KM</i> ₃₀	10 27.1 177°86'	1°0/27.9 18				460149	2014 <i>PJ</i> ₆₄	10 27.1 70°85'	6°5/21.0 18			
9 18	2 35.32	+17 1.3	2.131	2.915	14.5	19.8	9 18	2 30.11	- 4 18.6	2.117	2.942	13.2	20.9
9 28	2 30.53	+16 57.8	2.043	2.916	11.6	19.6	9 28	2 26.18	- 5 29.6	2.061	2.954	10.6	20.8
10 8	2 23.54	+16 43.1	1.977	2.917	8.1	19.4	10 8	2 20.38	- 6 37.9	2.029	2.966	8.1	20.7
10 18	2 14.86	+16 18.0	1.937	2.918	4.2	19.1	10 18	2 13.26	- 7 37.2	2.022	2.978	6.6	20.6
10 28	2 5.35	+15 45.0	1.925	2.918	1.0	18.9	10 28	2 5.58	- 8 21.3	2.043	2.990	7.0	20.6
11 7	1 56.00	+15 8.4	1.943	2.918	4.3	19.2	11 7	1 58.20	- 8 46.2	2.091	3.002	8.9	20.8
11 17	1 47.75	+14 32.9	1.990	2.917	8.2	19.4	11 17	1 51.87	- 8 50.0	2.163	3.014	11.3	21.0
11 27	1 41.38	+14 3.5	2.063	2.916	11.6	19.6	11 27	1 47.20	- 8 33.1	2.259	3.026	13.6	21.2
265242	2004 <i>EG</i> ₂₁	10 27.1 127°73'	0°4/27.4 16				2235	Vittore	10 27.1 296°51'	1°3/25.7 18			
9 18	2 36.06	+16 24.3	1.771	2.568	16.5	21.5	9 18	2 27.01	+14 3.7	2.290	3.095	13.0	15.6
9 28	2 31.41	+16 5.3	1.698	2.579	13.1	21.3	9 28	2 23.98	+12 55.7	2.184	3.074	10.2	15.4
10 8	2 24.25	+15 32.9	1.645	2.590	9.0	21.1	10 8	2 19.09	+11 34.1	2.101	3.053	6.9	15.2
10 18	2 15.21	+14 48.9	1.617	2.600	4.5	20.8	10 18	2 12.75	+10 2.3	2.045	3.031	3.3	14.9
10 28	2 5.33	+13 57.5	1.617	2.610	0.5	20.5	10 28	2 5.64	+ 8 26.1	2.019	3.010	1.6	14.7
11 7	1 55.78	+13 4.8	1.645	2.619	5.0	20.9	11 7	1 58.58	+ 6 52.3	2.023	2.989	5.1	14.9
11 17	1 47.62	+12 17.0	1.701	2.628	9.3	21.2	11 17	1 52.35	+ 5 27.8	2.055	2.968	8.8	15.1
11 27	1 41.67	+11 39.7	1.782	2.637	13.1	21.4	11 27	1 47.66	+ 4 18.3	2.113	2.947	12.1	15.3
521936	2015 <i>UR</i> ₉₀	10 27.1 264°97'	1°2/28.3 18				287153	2002 <i>RF</i> ₂₃₃	10 27.1 154°49'	4°3/30.9 18			
9 18	2 29.16	+19 50.5	2.276	3.058	13.7	21.1	9 18	2 36.55	+26 48.6	2.274	3.012	15.0	21.1
9 28	2 25.64	+19 22.8	2.182	3.053	11.0	20.9	9 28	2 31.55	+27 12.0	2.187	3.019	12.5	20.9
10 8	2 20.16	+18 41.1	2.110	3.048	7.8	20.7	10 8	2 24.27	+27 20.1	2.119	3.025	9.6	20.8
10 18	2 13.21	+17 46.6	2.064	3.043	4.2	20.5	10 18	2 15.27	+27 11.0	2.076	3.030	6.6	20.6
10 28	2 5.54	+16 42.8	2.046	3.038	1.2	20.2	10 28	2 5.39	+26 45.2	2.061	3.035	4.4	20.5
11 7	1 57.99	+15 34.8	2.057	3.033	4.0	20.4	11 7	1 55.67	+26 5.7	2.074	3.040	5.1	20.5
11 17	1 51.39	+14 28.4	2.098	3.028	7.6	20.7	11 17	1 47.09	+25 17.5	2.117	3.044	7.8	20.7
11 27	1 46.44	+13 29.4	2.164	3.023	10.9	20.9	11 27	1 40.45	+24 27.1	2.186	3.048	10.7	20.9
224661	2006 <i>AV</i> ₅	10 27.1 113°93'	4°2/22.9 18				145860	1999 <i>KO</i> ₃	10 27.1 97°86'	1°5/25.8 18			
9 18	2 31.55	- 0 20.9	2.590	3.401	11.5	20.2	9 18	2 31.61	+10 21.1	2.056	2.867	14.0	20.6
9 28	2 26.91	- 1 2.4	2.526	3.416	9.0	20.1	9 28	2 27.60	+ 9 54.0	1.978	2.870	11.0	20.4
10 8	2 20.69	- 1 43.7	2.487	3.430	6.5	19.9	10 8	2 21.52	+ 9 19.1	1.921	2.873	7.4	20.1
10 18	2 13.35	- 2 20.5	2.474	3.444	4.5	19.8	10 18	2 13.90	+ 8 39.6	1.890	2.876	3.6	19.9
10 28	2 5.55	- 2 48.8	2.491	3.457	4.5	19.9	10 28	2 5.54	+ 7 59.7	1.888	2.879	1.8	19.8
11 7	1 57.99	- 3 5.4	2.537	3.471	6.4	20.0	11 7	1 57.38	+ 7 24.4	1.914	2.882	5.3	20.0
11 17	1 51.32	- 3 8.4	2.611	3.483	8.8	20.2	11 17	1 50.29	+ 6 57.9	1.968	2.885	9.0	20.3
11 27	1 46.06	- 2 57.0	2.710	3.496	11.1	20.4	11 27	1 44.99	+ 6 43.5	2.048	2.887	12.2	20.5
512010	2015 <i>LV</i> ₂₁	10 27.1 69°88'	7°6/21.2 18				138106	2000 <i>DB</i> ₉₆	10 27.1 118°94'	3°6/30.5 18			
9 18	2 32.65	- 2 53.4	1.609	2.446	16.1	21.0	9 18	2 35.76	+25 55.4	2.322	3.063	14.6	20.1
9 28	2 28.65	- 4 23.6	1.563	2.464	12.8	20.9	9 28	2 30.70	+26 3.2	2.244	3.081	12.0	19.9
10 8	2 22.25	- 5 51.6	1.539	2.481	9.7	20.7	10 8	2 23.54	+25 55.5	2.187	3.098	9.0	19.8
10 18	2 14.19	- 7 8.6	1.539	2.499	7.8	20.7	10 18	2 14.84	+25 31.6	2.155	3.114	6.0	19.6
10 28	2 5.47	- 8 6.1	1.565	2.517	8.2	20.8	10 28	2 5.45	+24 52.9	2.151	3.130	3.7	19.5
11 7	1 57.24	- 8 38.7	1.617	2.535	10.6	20.9	11 7	1 56.33	+24 3.2	2.176	3.145	4.6	19.6
11 17	1 50.43	- 8 44.4	1.693	2.553	13.5	21.2	11 17	1 48.36	+23 7.9	2.231	3.160	7.3	19.8
11 27	1 45.76	- 8 24.4	1.790	2.571	16.2	21.4	11 27	1 42.25	+22 13.2	2.313	3.174	10.2	20.0
240188	2002 <i>QC</i> ₁₀₃	10 27.1 46°50'	3°7/24.4 18				207988	1998 <i>DJ</i> ₁₂	10 27.1 211°56'	1°2/28.0 18			
9 18	2 32.05	+ 5 56.6	1.648	2.479	16.1	20.1	9 18	2 36.06	+17 11.5	2.050	2.834	15.0	20.5
9 28	2 28.32	+ 5 13.5	1.584	2.488	12.5	19.9	9 28	2 31.32	+17 16.1	1.957	2.829	12.0	20.2
10 8	2 22.15	+ 4 24.9	1.541	2.497	8.5	19.7	10 8	2 24.23	+17 9.5	1.885	2.824	8.5	20.0
10 18	2 14.20	+ 3 35.8	1.523	2.506	4.8	19.5	10 18	2 15.30	+16 52.1	1.838	2.819	4.5	19.8
10 28	2 5.47	+ 2 52.9	1.532	2.516	4.0	19.5	10 28	2 5.39	+16 25.8	1.820	2.812	1.2	19.5
11 7	1 57.07	+ 2 21.9	1.567	2.525	7.3	19.7	11 7	1 55.57	+15 54.7	1.831	2.806	4.5	19.7
11 17	1 50.03	+ 2 6.8	1.629	2.536	11.1	20.0	11 17	1 46.87	+15 23.6	1.871	2.799	8.5	20.0
11 27	1 45.11	+ 2 9.7	1.713	2.546	14.6	20.2	11 27	1 40.14	+14 57.7	1.936	2.792	12.1	20.2
386766	2010 <i>CB</i> ₁₄₈	10 27.1 138°81'	3°4/30.1 18				442412	2011 <i>UL</i> ₁₀₂	10 27.1 52°18'	0°7/27.6 18			
9 18	2 38.38	+24 22.9	2.403	3.144	14.2	21.4	9 18	2 34.32	+15 20.0	1.827	2.628	15.9	21.5
9 28	2 32.71	+24 45.1	2.320	3.157	11.7	21.2	9 28	2 30.07	+15 26.1	1.750	2.633	12.6	21.3
10 8	2 24.90	+24 54.0	2.258	3.171	8.7	21.1	10 8	2 23.39	+15 21.6	1.694	2.639	8.8	21.0
10 18	2 15.50	+24 48.2	2.222	3.183	5.7	20.9	10 18	2 14.87	+15 7.3	1.663	2.646	4.4	20.8
10 28	2 5.33	+24 28.6	2.215	3.195	3.5	20.8	10 28	2 5.45	+14 46.1	1.659	2.652	0.7	20.5
11 7	1 55.38	+23 57.8	2.238	3.206	4.5	20.9	11 7	1 56.26	+14 22.1	1.683	2.658	4.8	20.9
11 17	1 46.54	+23 20.5	2.290	3.216	7.3	21.1	11 17	1 48.34	+14 0.1	1.735	2.665	9.0	21.1
11 27	1 39.54	+22 42.2	2.370	3.226	10.2	21.3	11 27	1 42.53	+13 45.0	1.812	2.672	12.6	21.4
451348	2010 <i>WQ</i> ₄	10 27.1 69°52'	2°0/29.0 18				243921	2001 <i>MU</i> ₂₄	10 27.1 52°04'	4°0/30.5 18			

EPHEMERIDES

10 27.1

10 27.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
324712	2007 EQ ₁₃₁		10 27.1 232°99	2.4/24.5	18		512032	2015 MU ₆₅		10 27.1 114°21	1.0/28.0	18	
9 18	2 29.24	+ 7 59.2	2.538	3.347	11.7	22.2	9 18	2 33.90	+18 48.5	1.992	2.778	15.3	21.9
9 28	2 25.41	+ 7 6.4	2.445	3.337	9.2	22.0	9 28	2 29.46	+18 23.9	1.918	2.792	12.2	21.7
10 8	2 19.88	+ 6 7.0	2.376	3.327	6.2	21.8	10 8	2 22.80	+17 45.0	1.866	2.806	8.5	21.5
10 18	2 13.08	+ 5 4.5	2.334	3.317	3.3	21.6	10 18	2 14.53	+16 53.6	1.838	2.819	4.5	21.3
10 28	2 5.64	+ 4 3.7	2.322	3.307	2.7	21.5	10 28	2 5.55	+15 53.6	1.839	2.832	1.0	21.0
11 7	1 58.29	+ 3 9.6	2.339	3.296	5.4	21.7	11 7	1 56.89	+14 50.7	1.869	2.845	4.4	21.3
11 17	1 51.74	+ 2 26.3	2.386	3.285	8.4	21.9	11 17	1 49.45	+13 51.3	1.928	2.857	8.3	21.6
11 27	1 46.59	+ 1 56.9	2.457	3.273	11.2	22.0	11 27	1 43.97	+13 1.0	2.012	2.869	11.7	21.8
203198	2001 DV ₁		10 27.1 20°55	0.1/27.2	18		130167	1999 YV ₂₇		10 27.1 327°23	2.3/25.6	18	
9 18	2 32.09	+15 9.1	1.589	2.404	17.3	21.1	9 18	2 35.00	+ 5 41.1	2.087	2.897	13.9	19.5
9 28	2 28.69	+14 55.6	1.514	2.407	13.7	20.9	9 28	2 30.31	+ 5 44.6	2.000	2.892	10.9	19.3
10 8	2 22.64	+14 28.7	1.459	2.410	9.4	20.7	10 8	2 23.44	+ 5 45.7	1.935	2.886	7.5	19.1
10 18	2 14.56	+13 50.7	1.428	2.413	4.6	20.4	10 18	2 14.90	+ 5 47.0	1.897	2.880	3.9	18.8
10 28	2 5.49	+13 5.9	1.423	2.417	0.4	20.1	10 28	2 5.51	+ 5 51.3	1.887	2.875	2.5	18.7
11 7	1 56.67	+12 20.6	1.445	2.420	5.4	20.5	11 7	1 56.22	+ 6 1.6	1.906	2.870	5.6	18.9
11 17	1 49.26	+11 41.2	1.494	2.425	10.0	20.7	11 17	1 47.99	+ 6 20.0	1.954	2.866	9.3	19.2
11 27	1 44.15	+11 13.3	1.566	2.429	14.1	21.0	11 27	1 41.57	+ 6 48.3	2.026	2.861	12.5	19.4
148130	1999 TB ₂₀₃		10 27.1 181°44	3.2/30.1	18		515990	2015 RC ₂₀₈		10 27.1 44°79	3.0/28.9	18	
9 18	2 34.66	+24 9.7	2.644	3.387	13.0	20.2	9 18	2 38.65	+18 57.0	1.774	2.558	17.0	20.6
9 28	2 29.75	+24 31.7	2.548	3.387	10.7	20.1	9 28	2 33.64	+19 46.4	1.702	2.571	13.7	20.4
10 8	2 22.90	+24 41.8	2.475	3.388	8.0	19.9	10 8	2 25.93	+20 24.4	1.650	2.584	9.9	20.2
10 18	2 14.58	+24 38.9	2.427	3.388	5.3	19.7	10 18	2 16.17	+20 49.3	1.623	2.597	5.9	20.0
10 28	2 5.49	+24 23.6	2.407	3.387	3.3	19.6	10 28	2 5.39	+21 1.1	1.623	2.610	3.0	19.8
11 7	1 56.49	+23 58.2	2.418	3.386	4.2	19.6	11 7	1 54.87	+21 2.2	1.651	2.624	5.1	20.0
11 17	1 48.37	+23 26.4	2.458	3.385	6.8	19.8	11 17	1 45.78	+20 56.9	1.707	2.639	8.9	20.3
11 27	1 41.85	+22 53.0	2.526	3.384	9.6	20.0	11 27	1 39.04	+20 50.7	1.788	2.653	12.5	20.5
514071	2014 QB ₂₆₄		10 27.1 148°00	7.3/17.4	18		294707	2008 BU ₁₆		10 27.1 253°01	4.9/22.7	18	
9 18	2 28.85	-11 21.3	2.782	3.590	10.9	21.7	9 18	2 31.20	+ 1 5.4	2.121	2.943	13.3	20.9
9 28	2 24.82	-12 59.1	2.729	3.598	9.1	21.6	9 28	2 27.30	+ 0 7.1	2.036	2.933	10.5	20.7
10 8	2 19.31	-14 31.2	2.700	3.605	7.8	21.5	10 8	2 21.36	- 0 53.8	1.974	2.921	7.6	20.5
10 18	2 12.73	-15 51.6	2.698	3.612	7.3	21.5	10 18	2 13.89	- 1 51.9	1.938	2.910	5.3	20.4
10 28	2 5.69	-16 54.7	2.724	3.619	7.9	21.5	10 28	2 5.62	- 2 41.1	1.930	2.899	5.4	20.4
11 7	1 58.84	-17 37.1	2.777	3.625	9.3	21.6	11 7	1 57.47	- 3 16.0	1.950	2.887	7.8	20.5
11 17	1 52.77	-17 57.3	2.854	3.631	10.9	21.8	11 17	1 50.29	- 3 33.0	1.997	2.875	10.9	20.7
11 27	1 48.00	-17 55.9	2.952	3.636	12.4	21.9	11 27	1 44.80	- 3 30.7	2.066	2.863	13.8	20.8
273623	2007 DU ₂₆		10 27.1 237°87	0.4/27.4	18		46007	2001 CG ₁₂		10 27.1 242°87	5.7/23.2	18	
9 18	2 35.36	+15 37.3	1.856	2.653	15.8	21.6	9 18	2 34.29	+ 2 31.9	1.552	2.386	16.7	19.6
9 28	2 31.07	+15 27.1	1.761	2.643	12.7	21.4	9 28	2 30.45	+ 1 28.7	1.476	2.380	13.2	19.4
10 8	2 24.24	+15 4.7	1.687	2.632	8.8	21.1	10 8	2 23.90	+ 0 20.7	1.421	2.373	9.4	19.2
10 18	2 15.38	+14 31.2	1.637	2.620	4.4	20.9	10 18	2 15.23	- 0 45.1	1.390	2.367	6.2	19.0
10 28	2 5.41	+13 49.9	1.615	2.608	0.5	20.5	10 28	2 5.49	- 1 40.2	1.385	2.360	6.2	19.0
11 7	1 55.51	+13 6.1	1.622	2.596	5.1	20.8	11 7	1 55.95	- 2 17.2	1.407	2.352	9.4	19.1
11 17	1 46.78	+12 25.6	1.656	2.583	9.5	21.1	11 17	1 47.82	- 2 31.5	1.453	2.345	13.3	19.3
11 27	1 40.18	+11 54.2	1.715	2.570	13.5	21.3	11 27	1 42.02	- 2 21.6	1.521	2.338	16.9	19.6
236520	2006 HA ₃		10 27.1 157°43	1.4/25.8	18		486937	2014 MH ₃₆		10 27.1 335°48	4.8/31.3	18	
9 18	2 33.37	+11 20.3	2.155	2.957	13.8	22.0	9 18	2 32.01	+27 45.0	2.104	2.852	15.7	20.7
9 28	2 28.85	+10 42.6	2.075	2.963	10.8	21.8	9 28	2 28.30	+28 5.7	2.013	2.850	13.2	20.5
10 8	2 22.30	+ 9 56.0	2.019	2.969	7.3	21.6	10 8	2 22.25	+28 9.2	1.941	2.848	10.2	20.3
10 18	2 14.27	+ 9 4.0	1.988	2.974	3.5	21.4	10 18	2 14.39	+27 53.8	1.892	2.846	7.2	20.1
10 28	2 5.54	+ 8 10.9	1.987	2.978	1.7	21.3	10 28	2 5.57	+27 19.9	1.870	2.844	4.9	19.9
11 7	1 57.04	+ 7 22.2	2.016	2.982	5.1	21.5	11 7	1 56.87	+26 30.7	1.876	2.842	5.5	20.0
11 17	1 49.61	+ 6 42.5	2.073	2.986	8.7	21.8	11 17	1 49.29	+25 32.2	1.909	2.840	8.2	20.1
11 27	1 43.92	+ 6 15.4	2.155	2.989	11.9	22.0	11 27	1 43.69	+24 31.5	1.968	2.839	11.3	20.3
23775	Okudaira		10 27.1 73°80	5.5/22.1	18		466268	2013 MQ ₃		10 27.1 47°18	0.9/26.5	16	
9 18	2 31.21	+ 3 31.9	1.707	2.541	15.5	18.6	9 18	2 35.74	+15 25.2	1.013	1.857	23.0	21.2
9 28	2 27.41	+ 1 49.3	1.656	2.561	12.0	18.5	9 28	2 32.18	+14 34.4	0.979	1.888	17.9	21.0
10 8	2 21.38	+ 0 2.2	1.629	2.581	8.5	18.3	10 8	2 25.12	+13 24.7	0.962	1.920	12.0	20.8
10 18	2 13.79	- 1 40.9	1.627	2.601	5.8	18.2	10 18	2 15.67	+12 2.7	0.966	1.953	5.6	20.5
10 28	2 5.60	- 3 11.0	1.652	2.621	6.1	18.3	10 28	2 5.48	+10 38.6	0.994	1.987	1.3	20.4
11 7	1 57.85	- 4 20.7	1.705	2.641	8.8	18.5	11 7	1 56.27	+ 9 23.7	1.046	2.021	7.1	20.8
11 17	1 51.42	- 5 5.9	1.784	2.660	12.0	18.7	11 17	1 49.36	+ 8 26.6	1.122	2.054	12.4	21.3
11 27	1 46.98	- 5 25.6	1.884	2.680	14.9	18.9	11 27	1 45.51	+ 7 52.2	1.219	2.089	16.8	21.6
267095	1999 XB ₁₃₈		10 27.1 303°31	1.0/26.5	18		158714	2003 HO ₁₂		10 27.1 232°41	1.7/25.7	18	
9 18	2 32.73	+12 16.9	1.372	2.204	18.7	21.3	9 18	2 33.96	+10 53.3	1.962	2.770	14.7	21.8
9 28	2 30.00	+12 5.1	1.279	2.182	14.9	21.0	9 28	2 29.73	+10 17.7	1.869	2.760	11.6	21.6
10 8	2 24.12	+11 40.7	1.205	2.161	10.3	20.6	10 8	2 23.19	+ 9 32.3	1.798	2.749	7.9	21.3
10 18	2 15.57	+11 6.0	1.153	2.139	5.0	20.3	10 18	2 14.84	+ 8 40.4	1.752	2.738	3.9	21.1
10 28	2 5.41	+10 25.9	1.125	2.118	1.4	20.0	10 28	2 5.53	+ 7 46.9	1.735	2.726	2.0	20.9
11 7	1 55.16	+ 9 47.4	1.124	2.097	6.9	20.3	11 7	1 56.31	+ 6 57.7	1.746	2.713	5.7	21.1
11 17	1 46.33	+ 9 18.0	1.146	2.077	12.4	20.5	11 17	1 48.18	+ 6 18.3	1.786	2.700	9.8	21.4
11 27	1 40.19	+ 9 4.0	1.191	2.057	17.3	20.8	11 27	1 41.98	+ 5 53.1	1.850	2.687	13.5	21.6
277435	2005 UB ₃₈₈		10 27.1 209°74	1.6/25.8	18		249988	2001 WJ ₅₈		10 27.1 353°48	0.3/27.4	18	
9 18	2 34.83	+10 46.8	1.984	2.									

EPHEMERIDES

10 27.1

10 27.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
208052	1999 <i>TJ</i> ₁₉₃	10 27.1 327 ^o .73	2 ^o .6/28.7 18				60734	2000 <i>GT</i> ₈₀	10 27.1 146 ^o .58	0 ^o .3/26.9 18			
9 18	2 28.69	+19 39.4	1.397	2.215	19.1	20.1	9 18	2 36.16	+15 14.6	1.448	2.263	18.7	20.0
9 28	2 26.85	+19 52.3	1.303	2.194	15.6	19.8	9 28	2 32.16	+14 43.9	1.375	2.267	14.8	19.8
10 8	2 21.98	+19 47.7	1.228	2.174	11.4	19.5	10 8	2 25.16	+13 57.4	1.321	2.272	10.2	19.5
10 18	2 14.53	+19 24.8	1.174	2.154	6.5	19.2	10 18	2 15.88	+12 57.9	1.291	2.276	4.9	19.3
10 28	2 5.56	+18 45.4	1.144	2.135	2.7	18.9	10 28	2 5.49	+11 51.4	1.286	2.280	0.7	19.0
11 7	1 56.51	+17 55.4	1.139	2.117	5.9	19.1	11 7	1 55.43	+10 46.2	1.309	2.283	6.1	19.4
11 17	1 48.86	+17 2.8	1.159	2.101	11.1	19.3	11 17	1 47.01	+9 50.3	1.358	2.286	11.1	19.7
11 27	1 43.85	+16 16.9	1.201	2.085	15.9	19.6	11 27	1 41.20	+9 10.4	1.430	2.289	15.4	19.9
486634	2013 <i>NA</i> ₇	10 27.1 107 ^o .18	4 ^o .4/22.5 18				329485	2002 <i>QD</i> ₁₁₃	10 27.1 62 ^o .38	4 ^o .0/29.7 16			
9 18	2 28.87	+0 33.7	2.467	3.287	11.7	21.3	9 18	2 38.19	+23 11.7	1.328	2.123	21.1	20.8
9 28	2 25.04	-0 23.3	2.398	3.292	9.2	21.1	9 28	2 33.91	+23 28.1	1.273	2.146	17.2	20.6
10 8	2 19.57	-1 21.3	2.352	3.298	6.6	20.9	10 8	2 26.36	+23 23.0	1.236	2.169	12.6	20.4
10 18	2 12.92	-2 15.6	2.333	3.303	4.7	20.8	10 18	2 16.40	+22 55.5	1.221	2.193	7.7	20.2
10 28	2 5.75	-3 1.3	2.343	3.309	4.8	20.9	10 28	2 5.45	+22 8.4	1.230	2.216	4.1	20.0
11 7	1 58.76	-3 34.3	2.381	3.314	6.8	21.0	11 7	1 55.12	+21 8.9	1.265	2.240	6.0	20.2
11 17	1 52.63	-3 51.8	2.446	3.319	9.4	21.2	11 17	1 46.79	+20 6.4	1.326	2.264	10.3	20.5
11 27	1 47.92	-3 52.8	2.536	3.324	11.7	21.3	11 27	1 41.38	+19 10.3	1.410	2.287	14.4	20.9
223904	2004 <i>VK</i> ₅₆	10 27.1 240 ^o .02	1 ^o .5/25.8 18				36196	1999 <i>TT</i> ₉₀	10 27.1 275 ^o .17	1 ^o .0/26.3 18			
9 18	2 32.12	+8 46.3	2.400	3.204	12.5	20.6	9 18	2 33.36	+10 13.4	2.193	2.997	13.5	18.3
9 28	2 27.77	+8 33.3	2.311	3.200	9.8	20.4	9 28	2 28.98	+10 9.5	2.103	2.991	10.6	18.1
10 8	2 21.56	+8 15.2	2.246	3.196	6.6	20.2	10 8	2 22.52	+9 59.7	2.035	2.985	7.2	17.8
10 18	2 13.95	+7 54.4	2.206	3.191	3.3	20.0	10 18	2 14.48	+9 45.6	1.993	2.979	3.5	17.6
10 28	2 5.64	+7 33.9	2.197	3.187	1.8	19.8	10 28	2 5.62	+9 30.5	1.980	2.972	1.2	17.4
11 7	1 57.45	+7 17.4	2.216	3.182	4.8	20.1	11 7	1 56.86	+9 17.7	1.997	2.966	4.8	17.7
11 17	1 50.13	+7 7.8	2.265	3.178	8.1	20.3	11 17	1 49.06	+9 10.5	2.041	2.960	8.5	17.9
11 27	1 44.37	+7 7.7	2.339	3.173	11.1	20.4	11 27	1 42.99	+9 12.1	2.111	2.954	11.8	18.1
132297	2002 <i>GD</i> ₁	10 27.1 231 ^o .34	0 ^o .7/26.6 18				220507	2004 <i>DH</i> ₄₄	10 27.1 185 ^o .49	1 ^o .0/27.9 16			
9 18	2 32.84	+13 35.2	1.854	2.662	15.5	20.6	9 18	2 36.16	+17 53.3	1.991	2.775	15.4	21.9
9 28	2 28.96	+13 7.5	1.768	2.657	12.2	20.4	9 28	2 31.43	+17 37.3	1.902	2.775	12.3	21.6
10 8	2 22.70	+12 28.1	1.703	2.653	8.3	20.2	10 8	2 24.32	+17 7.7	1.835	2.775	8.6	21.4
10 18	2 14.61	+11 39.8	1.663	2.648	4.0	19.9	10 18	2 15.39	+16 25.7	1.793	2.773	4.5	21.2
10 28	2 5.58	+10 47.0	1.650	2.643	1.0	19.6	10 28	2 5.55	+15 34.5	1.779	2.772	1.0	20.9
11 7	1 56.71	+9 55.8	1.666	2.638	5.3	20.0	11 7	1 55.88	+14 39.5	1.795	2.769	4.6	21.2
11 17	1 49.02	+9 12.1	1.710	2.633	9.6	20.2	11 17	1 47.41	+13 46.8	1.839	2.766	8.7	21.4
11 27	1 43.34	+8 40.9	1.778	2.627	13.3	20.4	11 27	1 40.96	+13 2.3	1.909	2.762	12.4	21.6
190239	2007 <i>DT</i> ₄₄	10 27.1 173 ^o .83	5 ^o .8/20.0 18				50451	2000 <i>DF</i> ₄₁	10 27.1 357 ^o .45	3 ^o .0/28.6 18			
9 18	2 29.55	-6 50.4	2.906	3.715	10.4	21.0	9 18	2 25.16	+17 54.0	0.933	1.792	23.2	18.1
9 28	2 25.31	-7 59.3	2.838	3.718	8.5	20.9	9 28	2 25.05	+18 30.9	0.869	1.785	18.8	17.8
10 8	2 19.64	-9 5.3	2.795	3.720	6.7	20.8	10 8	2 21.23	+18 48.8	0.822	1.779	13.6	17.5
10 18	2 12.94	-10 3.4	2.780	3.722	5.8	20.7	10 18	2 14.29	+18 46.5	0.792	1.776	7.7	17.2
10 28	2 5.76	-10 49.0	2.793	3.723	6.2	20.8	10 28	2 5.65	+18 26.2	0.783	1.775	3.0	16.9
11 7	1 58.75	-11 18.7	2.834	3.724	7.7	20.9	11 7	1 57.25	+17 54.8	0.796	1.776	6.9	17.2
11 17	1 52.47	-11 30.8	2.902	3.724	9.6	21.0	11 17	1 50.88	+17 21.8	0.829	1.780	12.8	17.5
11 27	1 47.43	-11 25.1	2.992	3.724	11.4	21.1	11 27	1 47.88	+16 56.9	0.881	1.786	18.1	17.8
405301	2003 <i>UH</i> ₅	10 27.1 336 ^o .28	4 ^o .7/31.1 17				327141	2005 <i>EC</i> ₂₄₉	10 27.1 275 ^o .33	2 ^o .5/25.3 17			
9 18	2 27.53	+27 14.0	1.846	2.616	16.9	20.0	9 18	2 32.45	+11 12.4	1.426	2.257	18.1	21.1
9 28	2 25.18	+27 22.4	1.749	2.602	14.2	19.8	9 28	2 29.32	+10 17.1	1.348	2.253	14.2	20.8
10 8	2 20.36	+27 10.8	1.672	2.589	10.9	19.6	10 8	2 23.31	+9 7.7	1.291	2.248	9.7	20.5
10 18	2 13.56	+26 37.7	1.616	2.576	7.5	19.3	10 18	2 15.02	+7 49.3	1.257	2.244	4.8	20.3
10 28	2 5.69	+25 43.9	1.586	2.565	4.9	19.2	10 28	2 5.60	+6 30.0	1.249	2.239	3.0	20.1
11 7	1 57.87	+24 34.1	1.583	2.554	5.6	19.2	11 7	1 56.40	+5 19.4	1.268	2.235	7.4	20.4
11 17	1 51.23	+23 15.6	1.606	2.544	8.9	19.4	11 17	1 48.70	+4 25.4	1.312	2.230	12.3	20.7
11 27	1 46.68	+21 57.4	1.654	2.535	12.5	19.6	11 27	1 43.50	+3 53.3	1.377	2.226	16.5	20.9
520382	2014 <i>HG</i> ₂₀₆	10 27.1 85 ^o .38	1 ^o .1/27.9 18				359855	2011 <i>UN</i> ₃₈₃	10 27.1 26 ^o .73	0 ^o .8/27.7 18			
9 18	2 33.31	+17 31.1	1.914	2.707	15.6	21.7	9 18	2 34.30	+15 12.7	1.691	2.498	16.8	20.5
9 28	2 29.21	+17 26.2	1.835	2.713	12.4	21.5	9 28	2 30.32	+15 25.1	1.615	2.502	13.3	20.3
10 8	2 22.79	+17 8.7	1.777	2.719	8.7	21.3	10 8	2 23.73	+15 26.6	1.560	2.507	9.3	20.1
10 18	2 14.62	+16 39.6	1.744	2.725	4.6	21.1	10 18	2 15.15	+15 18.0	1.529	2.513	4.7	19.8
10 28	2 5.60	+16 1.8	1.738	2.731	1.1	20.8	10 28	2 5.59	+15 1.8	1.525	2.518	0.9	19.6
11 7	1 56.80	+15 20.3	1.761	2.736	4.5	21.1	11 7	1 56.26	+14 42.4	1.549	2.525	5.0	19.9
11 17	1 49.22	+14 40.5	1.811	2.742	8.6	21.4	11 17	1 48.30	+14 24.7	1.599	2.531	9.4	20.2
11 27	1 43.65	+14 7.9	1.887	2.748	12.2	21.6	11 27	1 42.58	+14 13.6	1.673	2.538	13.3	20.4
321345	2009 <i>KT</i> ₁	10 27.1 105 ^o .40	1 ^o .4/26.2 17				343330	2010 <i>CH</i> ₁₇	10 27.1 178 ^o .53	5 ^o .1/23.6 18			
9 18	2 38.61	+11 31.3	1.533	2.348	17.9	21.5	9 18	2 41.00	-3 29.3	2.326	3.122	13.1	20.9
9 28	2 33.67	+11 8.8	1.471	2.364	14.0	21.3	9 28	2 34.61	-3 46.4	2.246	3.124	10.5	20.7
10 8	2 25.93	+10 35.8	1.428	2.380	9.5	21.1	10 8	2 26.15	-4 0.1	2.190	3.125	7.7	20.5
10 18	2 16.14	+9 55.9	1.410	2.396	4.5	20.8	10 18	2 16.18	-4 6.6	2.162	3.126	5.5	20.4
10 28	2 5.46	+9 14.4	1.419	2.411	1.7	20.7	10 28	2 5.51	-4 1.8	2.163	3.126	5.4	20.4
11 7	1 55.26	+8 37.6	1.455	2.425	6.1	21.0	11 7	1 55.06	-3 43.2	2.194	3.125	7.4	20.5
11 17	1 46.69	+8 10.9	1.518	2.440	10.7	21.3	11 17	1 45.70	-3 9.9	2.254	3.124	10.2	20.7
11 27	1 40.62	+7 58.4	1.605	2.453	14.6	21.6	11 27	1 38.14	-2 22.4	2.340	3.123	12.8	20.9
374709	2006 <i>RA</i> ₁₀₂	10 27.1 29 ^o .49	1 ^o .7/26.4 17				21734	1999 <i>RM</i> ₁₄₆	10 27.1 5 ^o .78	3 ^o .0/24.3 18			
9 18	2 37.47	+8 54.8	1.152	1.994	20.8	20.4	9 18	2 27.53	+8 55.3	1.837	2.666	14.7	17.9
9 28	2 33.72	+9 8.4	1.094	2.003	16.4	20.2	9 28	2 24.69	+7 47.6	1.763	2.666	11.5	17.7
10 8	2 26.49	+9 14.8	1.054	2.012	11.2	19.9	10 8	2 19.71	+6 30.3	1.711	2.667	7.8	17.4
10 18	2 16.58	+9 16.6	1.035	2.022	5.4	19.6	10 18	2 13.13	+5 8.8	1.684	2.668	4.1	17.2
10 28	2 5.42	+9 18.1	1.041	2.033	1.9	19.5	10 28	2 5.81	+3 50.4	1.684	2.670	3.5	17.2
11 7	1 54.76	+9 24.1	1.071	2.045	7.2	19.8	11 7	1 58.70	+2 42.2	1.713	2.672	6.7	17.4
11 17	1 46.11	+9 38.6	1.125	2.057	12.5	20.2	11 17	1 52.71	+1 50.1	1.768	2.674	10.4	17.6
11 27	1 40.56	+10 4.7	1.201	2.070	17.0</								

EPHEMERIDES

10 27.1

10 27.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
303501	2005 <i>ES</i> ₁₄₂	10 27.1 136°28' 0 ^s /27.7 18					309827	2009 <i>BG</i> ₁₅₈	10 27.1 218°53' 1 ^s /27.9 18				
9 18	2 37.71	+15 24.3	2.249	3.029	14.0	20.8	9 18	2 33.31	+17 15.9	1.999	2.790	15.1	21.4
9 28	2 32.24	+15 35.9	2.168	3.039	11.1	20.6	9 28	2 29.23	+17 9.4	1.910	2.788	12.0	21.2
10 8	2 24.66	+15 38.8	2.110	3.049	7.7	20.4	10 8	2 22.85	+16 50.5	1.843	2.785	8.4	20.9
10 18	2 15.50	+15 33.5	2.078	3.059	3.9	20.2	10 18	2 14.71	+16 20.4	1.801	2.782	4.4	20.7
10 28	2 5.58	+15 21.8	2.075	3.068	0.8	20.0	10 28	2 5.68	+15 41.9	1.787	2.779	1.0	20.4
11 7	1 55.87	+15 6.9	2.103	3.077	4.1	20.2	11 7	1 56.77	+14 59.6	1.801	2.776	4.5	20.7
11 17	1 47.26	+14 52.4	2.159	3.085	7.7	20.5	11 17	1 48.99	+14 18.9	1.843	2.773	8.5	20.9
11 27	1 40.47	+14 42.1	2.243	3.093	10.9	20.7	11 27	1 43.14	+13 45.2	1.911	2.770	12.1	21.1
511945	2015 <i>HD</i> ₁₇₅	10 27.1 135°22' 0 ^s /26.7 18					166119	2002 <i>CK</i> ₂₂₀	10 27.1 113°56' 2 ^s /24.9 18				
9 18	2 37.38	+12 53.0	1.921	2.719	15.4	21.7	9 18	2 34.17	+ 8 22.6	1.904	2.718	14.9	20.9
9 28	2 32.25	+12 38.7	1.847	2.731	12.1	21.5	9 28	2 29.66	+ 7 37.4	1.837	2.732	11.6	20.7
10 8	2 24.78	+12 14.9	1.795	2.742	8.2	21.3	10 8	2 22.96	+ 6 45.0	1.793	2.745	7.8	20.5
10 18	2 15.58	+11 43.9	1.768	2.752	3.9	21.1	10 18	2 14.67	+ 5 49.9	1.774	2.758	4.0	20.3
10 28	2 5.58	+11 9.4	1.769	2.762	0.8	20.9	10 28	2 5.69	+ 4 57.7	1.784	2.771	2.9	20.3
11 7	1 55.87	+10 36.2	1.800	2.772	5.0	21.2	11 7	1 57.05	+ 4 14.1	1.822	2.783	6.2	20.5
11 17	1 47.45	+10 9.1	1.859	2.781	9.0	21.5	11 17	1 49.64	+ 3 43.6	1.888	2.795	9.8	20.8
11 27	1 41.09	+ 9 52.1	1.944	2.789	12.6	21.7	11 27	1 44.17	+ 3 28.8	1.978	2.806	13.1	21.0
81134	2000 <i>ED</i> ₁₃₄	10 27.1 74°69' 5 ^s /22.3 18					344456	2002 <i>LZ</i> ₅₁	10 27.1 122°39' 3 ^s /24.3 18				
9 18	2 33.05	- 0 57.0	1.856	2.684	14.7	19.2	9 18	2 34.67	+ 5 11.8	2.117	2.928	13.7	21.4
9 28	2 28.67	- 2 4.7	1.807	2.705	11.6	19.1	9 28	2 29.77	+ 4 26.1	2.051	2.944	10.6	21.3
10 8	2 22.19	- 3 11.6	1.781	2.726	8.4	18.9	10 8	2 22.89	+ 3 36.4	2.009	2.959	7.3	21.1
10 18	2 14.23	- 4 11.0	1.779	2.747	6.2	18.8	10 18	2 14.60	+ 2 47.1	1.994	2.974	4.2	20.9
10 28	2 5.72	- 4 56.5	1.806	2.767	6.4	18.9	10 28	2 5.71	+ 2 3.5	2.007	2.988	3.7	20.9
11 7	1 57.62	- 5 23.3	1.859	2.788	8.7	19.1	11 7	1 57.13	+ 1 30.1	2.050	3.002	6.3	21.1
11 17	1 50.79	- 5 29.4	1.938	2.809	11.5	19.3	11 17	1 49.69	+ 1 10.3	2.120	3.015	9.5	21.4
11 27	1 45.87	- 5 14.9	2.039	2.829	14.1	19.5	11 27	1 44.01	+ 1 5.9	2.215	3.028	12.4	21.6
223598	2004 <i>GO</i> ₅₀	10 27.1 327°86' 2 ^s /28.3 18					86661	2000 <i>FG</i> ₃	10 27.1 94°33' 3 ^s /24.9 17				
9 18	2 34.28	+17 36.4	1.362	2.179	19.6	20.4	9 18	2 38.81	+ 7 0.9	1.351	2.181	19.0	19.3
9 28	2 31.23	+18 0.0	1.280	2.170	15.8	20.2	9 28	2 34.06	+ 6 15.4	1.296	2.199	14.8	19.1
10 8	2 24.95	+18 9.2	1.216	2.162	11.3	19.9	10 8	2 26.30	+ 5 22.4	1.261	2.217	10.0	18.9
10 18	2 15.99	+18 3.3	1.173	2.154	6.3	19.6	10 18	2 16.36	+ 4 28.1	1.250	2.234	5.4	18.7
10 28	2 5.53	+17 43.8	1.155	2.147	2.2	19.3	10 28	2 5.54	+ 3 40.2	1.265	2.251	4.2	18.6
11 7	1 55.14	+17 15.8	1.163	2.140	6.0	19.5	11 7	1 55.30	+ 3 5.7	1.306	2.268	8.0	18.9
11 17	1 46.35	+16 46.2	1.195	2.134	11.2	19.8	11 17	1 46.89	+ 2 49.3	1.373	2.284	12.5	19.2
11 27	1 40.37	+16 22.7	1.250	2.128	15.8	20.1	11 27	1 41.17	+ 2 53.0	1.461	2.300	16.3	19.5
224987	2007 <i>ED</i> ₉₇	10 27.1 126°11' 0 ^s /1/27.2 18					234763	2002 <i>PX</i> ₉	10 27.1 34°53' 3 ^s /30.9 18				
9 18	2 30.38	+15 26.6	2.424	3.215	12.8	21.2	9 18	2 30.20	+26 43.8	2.228	2.981	14.9	20.1
9 28	2 26.38	+15 3.0	2.341	3.220	10.1	21.0	9 28	2 26.64	+26 46.7	2.143	2.985	12.3	20.0
10 8	2 20.60	+14 29.5	2.281	3.226	6.9	20.8	10 8	2 20.99	+26 32.8	2.077	2.990	9.4	19.8
10 18	2 13.50	+13 48.1	2.248	3.231	3.4	20.6	10 18	2 13.77	+26 1.6	2.036	2.995	6.3	19.6
10 28	2 5.79	+13 2.0	2.243	3.237	0.3	20.4	10 28	2 5.79	+25 14.5	2.022	3.000	4.0	19.5
11 7	1 58.26	+12 15.7	2.268	3.242	3.9	20.7	11 7	1 57.99	+24 15.8	2.035	3.005	4.7	19.5
11 17	1 51.64	+11 33.4	2.323	3.247	7.3	20.9	11 17	1 51.26	+23 11.0	2.078	3.011	7.5	19.7
11 27	1 46.54	+10 59.3	2.403	3.252	10.3	21.1	11 27	1 46.30	+22 7.0	2.146	3.017	10.5	19.9
381181	2007 <i>LV</i> ₁₉	10 27.1 195°95' 10 ^s / 2.9 18					33885	2000 <i>KF</i> ₁₆	10 27.1 353°67' 0 ^s /27.5 18				
9 18	2 53.75	+37 56.9	1.228	1.943	26.4	22.7	9 18	2 27.70	+15 29.6	0.950	1.810	22.8	18.0
9 28	2 48.24	+38 31.7	1.140	1.942	23.3	22.4	9 28	2 26.97	+15 32.0	0.885	1.803	18.3	17.7
10 8	2 37.62	+38 31.3	1.064	1.939	19.4	22.2	10 8	2 22.49	+15 15.4	0.836	1.797	12.8	17.3
10 18	2 22.53	+37 43.5	1.006	1.933	15.1	21.9	10 18	2 14.91	+14 41.3	0.806	1.793	6.5	17.0
10 28	2 4.89	+36 0.4	0.970	1.924	11.6	21.7	10 28	2 5.67	+13 55.5	0.797	1.791	0.7	16.6
11 7	1 47.50	+33 26.6	0.958	1.913	11.2	21.6	11 7	1 56.68	+13 7.3	0.811	1.790	7.2	17.0
11 17	1 33.03	+30 20.0	0.972	1.900	14.5	21.1	11 17	1 49.74	+12 26.8	0.845	1.791	13.5	17.4
11 27	1 23.24	+27 6.8	1.010	1.884	19.1	22.0	11 27	1 46.14	+12 2.8	0.898	1.793	18.9	17.7
226098	2002 <i>PE</i> ₄	10 27.1 154°80' 1 ^s /28.2 18					62948	2000 <i>VE</i> ₃₂	10 27.1 344°61' 3 ^s /24.5 18				
9 18	2 29.28	+19 5.6	2.511	3.289	12.7	20.5	9 18	2 32.81	+ 3 40.2	2.016	2.836	14.0	18.7
9 28	2 25.52	+18 38.3	2.422	3.291	10.1	20.4	9 28	2 28.63	+ 3 16.2	1.937	2.834	11.0	18.5
10 8	2 20.02	+17 58.8	2.356	3.293	7.1	20.2	10 8	2 22.32	+ 2 49.8	1.881	2.833	7.6	18.3
10 18	2 13.22	+17 8.6	2.316	3.295	3.8	20.0	10 18	2 14.42	+ 2 24.9	1.851	2.831	4.5	18.1
10 28	2 5.82	+16 10.9	2.305	3.297	1.0	19.8	10 28	2 5.73	+ 2 6.1	1.848	2.830	3.9	18.1
11 7	1 58.57	+15 10.2	2.323	3.299	3.6	20.0	11 7	1 57.23	+ 1 57.3	1.874	2.829	6.6	18.2
11 17	1 52.20	+14 11.5	2.371	3.300	7.0	20.2	11 17	1 49.80	+ 2 1.4	1.927	2.828	10.0	18.4
11 27	1 47.31	+13 19.6	2.447	3.301	9.9	20.4	11 27	1 44.18	+ 2 19.9	2.004	2.827	13.1	18.6
164959	2000 <i>AS</i> ₈	10 27.1 324°52' 0 ^s /2/27.0 18					409147	2003 <i>UQ</i> ₁₀₄	10 27.1 358°46' 0 ^s /4/27.5 17				
9 18	2 31.75	+12 39.8	1.448	2.277	18.0	19.6	9 18	2 25.56	+18 47.7	1.779	2.588	16.0	20.7
9 28	2 29.07	+12 48.2	1.355	2.256	14.4	19.3	9 28	2 23.39	+17 56.2	1.697	2.586	12.7	20.5
10 8	2 23.41	+12 46.6	1.282	2.237	10.0	19.0	10 8	2 18.96	+16 46.6	1.636	2.584	8.8	20.2
10 18	2 15.24	+12 36.2	1.232	2.218	4.9	18.7	10 18	2 12.84	+15 22.1	1.599	2.582	4.4	20.0
10 28	2 5.60	+12 20.2	1.206	2.199	0.6	18.3	10 28	2 5.90	+13 48.4	1.589	2.582	0.5	19.7
11 7	1 55.89	+12 3.7	1.206	2.182	6.1	18.7	11 7	1 59.16	+12 13.9	1.607	2.583	4.9	20.0
11 17	1 47.52	+11 52.4	1.231	2.166	11.4	18.9	11 17	1 53.58	+10 46.8	1.652	2.584	9.2	20.3
11 27	1 41.69	+11 51.6	1.279	2.150	16.1	19.2	11 27	1 49.91	+ 9 34.3	1.722	2.586	13.0	20.5
63079	2000 <i>WY</i> ₁₃₀	10 27.1 48°20' 1 ^s /27.8 18					458025	2009 <i>WU</i> ₁₇₇	10 27.1 35°31' 5 ^s / 2.4 18				
9 18	2 32.32	+18 26.3	1.436	2.250	18.9	18.7	9 18	2 30.22	+33 19.6	2.196	2.915	16.0	20.5
9 28													

EPHEMERIDES

10 27.1

10 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
19693	1999 <i>RU</i> ₂₃₀		10 27.1	33°00	4°0/24.3	18	336862	2011 <i>FY</i> ₁₃₄		10 27.1	92°38	1°6/25.9	16
9 18	2 33.42	+ 2 28.1	1.895	2.718	14.6	17.1	9 18	2 33.40	+12 40.8	1.617	2.435	16.9	21.6
9 28	2 29.14	+ 2 5.9	1.826	2.724	11.4	16.9	9 28	2 29.53	+11 49.5	1.551	2.447	13.2	21.4
10 8	2 22.66	+ 1 42.5	1.780	2.731	8.0	16.7	10 8	2 23.13	+10 45.5	1.505	2.459	8.9	21.1
10 18	2 14.57	+ 1 22.2	1.759	2.738	4.9	16.5	10 18	2 14.86	+ 9 33.2	1.484	2.470	4.3	20.9
10 28	2 5.74	+ 1 9.5	1.765	2.745	4.3	16.5	10 28	2 5.77	+ 8 19.6	1.490	2.481	2.0	20.8
11 7	1 57.18	+ 1 8.3	1.800	2.753	7.0	16.7	11 7	1 57.06	+ 7 12.6	1.524	2.492	6.1	21.1
11 17	1 49.81	+ 1 20.8	1.860	2.760	10.4	16.9	11 17	1 49.77	+ 6 18.7	1.584	2.503	10.5	21.4
11 27	1 44.36	+ 1 47.9	1.945	2.768	13.5	17.1	11 27	1 44.71	+ 5 42.7	1.668	2.514	14.2	21.6
218116	2002 <i>PG</i> ₆₈		10 27.1	105°34	2°3/25.3	16	5202	Charleseliot		10 27.1	337°99	8°2/ 2.5	18 R
9 18	2 38.75	+ 9 55.4	1.758	2.565	16.2	22.0	9 18	2 27.36	+33 7.3	1.304	2.077	22.5	16.4
9 28	2 33.24	+ 9 5.2	1.702	2.592	12.6	21.9	9 28	2 26.33	+33 30.6	1.220	2.066	19.5	16.2
10 8	2 25.35	+ 8 6.3	1.668	2.619	8.4	21.7	10 8	2 21.91	+33 22.6	1.150	2.055	15.8	15.9
10 18	2 15.80	+ 7 3.6	1.660	2.644	4.2	21.5	10 18	2 14.63	+32 37.9	1.098	2.045	11.9	15.7
10 28	2 5.63	+ 6 3.2	1.680	2.669	2.6	21.4	10 28	2 5.77	+31 15.4	1.068	2.036	8.8	15.5
11 7	1 55.99	+ 5 11.6	1.730	2.693	6.2	21.7	11 7	1 57.05	+29 21.3	1.061	2.028	8.6	15.5
11 17	1 47.84	+ 4 33.7	1.807	2.716	10.1	22.0	11 17	1 50.10	+27 8.2	1.078	2.021	11.6	15.6
11 27	1 41.88	+ 4 12.4	1.908	2.738	13.4	22.3	11 27	1 46.18	+24 52.8	1.118	2.015	15.7	15.8
513254	2006 <i>HV</i> ₆₇		10 27.1	295°47	2°8/25.8	18	124240	2001 <i>PP</i> ₄₈		10 27.1	22°98	2°9/25.7	18
9 18	2 43.03	+ 3 42.4	1.751	2.559	16.2	20.7	9 18	2 35.00	+ 7 12.7	1.200	2.046	19.9	19.2
9 28	2 37.12	+ 4 4.8	1.666	2.555	12.9	20.5	9 28	2 31.65	+ 7 7.0	1.142	2.053	15.7	19.0
10 8	2 28.42	+ 4 27.7	1.602	2.551	8.9	20.3	10 8	2 25.04	+ 6 55.1	1.102	2.061	10.7	18.8
10 18	2 17.52	+ 4 53.4	1.564	2.547	4.8	20.0	10 18	2 15.93	+ 6 41.2	1.083	2.069	5.4	18.5
10 28	2 5.46	+ 5 24.4	1.555	2.543	3.0	19.9	10 28	2 5.67	+ 6 30.9	1.089	2.079	3.2	18.4
11 7	1 53.54	+ 6 2.5	1.575	2.539	6.6	20.1	11 7	1 55.86	+ 6 29.6	1.120	2.090	7.6	18.7
11 17	1 43.01	+ 6 48.9	1.623	2.535	10.8	20.3	11 17	1 47.91	+ 6 41.3	1.174	2.101	12.6	19.0
11 27	1 34.86	+ 7 44.2	1.696	2.532	14.6	20.6	11 27	1 42.83	+ 7 8.1	1.250	2.113	16.9	19.3
407641	2011 <i>EF</i> ₁₆		10 27.1	297°19	1°0/27.9	17	381782	2009 <i>TX</i> ₁		10 27.1	11°78	1°1/26.7	18
9 18	2 32.38	+16 7.3	2.241	3.030	13.7	20.8	9 18	2 32.76	+ 8 29.0	0.900	1.769	23.1	19.3
9 28	2 28.42	+16 16.7	2.134	3.011	11.0	20.6	9 28	2 30.84	+ 9 9.9	0.850	1.773	18.3	19.0
10 8	2 22.32	+16 16.9	2.050	2.991	7.8	20.4	10 8	2 25.00	+ 9 45.0	0.816	1.780	12.5	18.8
10 18	2 14.52	+16 8.4	1.991	2.972	4.1	20.1	10 18	2 16.06	+10 15.8	0.801	1.789	6.1	18.5
10 28	2 5.75	+15 52.7	1.960	2.953	1.0	19.9	10 28	2 5.66	+10 44.9	0.807	1.800	1.4	18.2
11 7	1 56.92	+15 33.0	1.958	2.933	4.2	20.1	11 7	1 55.81	+11 16.0	0.836	1.814	7.5	18.6
11 17	1 48.97	+15 13.3	1.985	2.914	8.0	20.3	11 17	1 48.25	+11 52.2	0.886	1.829	13.4	19.0
11 27	1 42.73	+14 57.9	2.038	2.896	11.5	20.5	11 27	1 44.16	+12 36.5	0.956	1.847	18.4	19.4
233530	2007 <i>HP</i> ₄₃		10 27.1	23°29	2°8/25.1	18	170061	2002 <i>VT</i> ₈₃		10 27.1	8°76	7°4/21.6	18
9 18	2 32.54	+ 5 28.8	2.011	2.830	14.0	19.8	9 18	2 33.22	- 5 37.9	1.838	2.665	14.8	19.4
9 28	2 28.39	+ 5 13.6	1.937	2.833	11.0	19.6	9 28	2 29.10	- 6 34.9	1.773	2.665	12.0	19.2
10 8	2 22.14	+ 4 55.2	1.885	2.838	7.5	19.4	10 8	2 22.71	- 7 27.9	1.730	2.666	9.3	19.0
10 18	2 14.32	+ 4 36.9	1.859	2.842	4.1	19.2	10 18	2 14.65	- 8 10.1	1.711	2.666	7.6	18.9
10 28	2 5.78	+ 4 22.6	1.861	2.847	3.1	19.1	10 28	2 5.81	- 8 34.7	1.718	2.667	7.9	19.0
11 7	1 57.45	+ 4 16.2	1.891	2.852	6.0	19.3	11 7	1 57.25	- 8 37.5	1.752	2.668	10.0	19.1
11 17	1 50.22	+ 4 20.3	1.949	2.857	9.5	19.6	11 17	1 49.90	- 8 17.0	1.810	2.669	12.8	19.3
11 27	1 44.79	+ 4 36.7	2.031	2.863	12.6	19.8	11 27	1 44.51	- 7 34.4	1.890	2.670	15.5	19.5
21923	1999 <i>VT</i> ₅₂		10 27.1	94°20	6°2/22.9	18	329136	2011 <i>DG</i> ₅		10 27.1	261°17	3°2/24.4	17
9 18	2 37.12	- 3 18.3	1.862	2.680	15.0	17.0	9 18	2 31.98	+ 3 37.9	2.435	3.246	12.1	20.9
9 28	2 31.93	- 3 58.1	1.804	2.695	12.0	16.9	9 28	2 27.68	+ 3 13.7	2.345	3.237	9.5	20.7
10 8	2 24.47	- 4 34.7	1.768	2.709	8.9	16.7	10 8	2 21.56	+ 2 47.3	2.279	3.228	6.6	20.5
10 18	2 15.41	- 5 2.4	1.758	2.723	6.6	16.6	10 18	2 14.07	+ 2 21.9	2.239	3.219	3.9	20.4
10 28	2 5.69	- 5 15.6	1.775	2.736	6.6	16.6	10 28	2 5.88	+ 2 1.5	2.229	3.209	3.4	20.3
11 7	1 56.37	- 5 10.9	1.820	2.750	8.8	16.8	11 7	1 57.78	+ 1 49.5	2.248	3.200	5.8	20.4
11 17	1 48.38	- 4 47.2	1.891	2.763	11.7	17.0	11 17	1 50.53	+ 1 48.6	2.294	3.191	8.8	20.6
11 27	1 42.42	- 4 5.4	1.984	2.776	14.4	17.2	11 27	1 44.77	+ 2 0.4	2.367	3.181	11.6	20.8
274888	2009 <i>SB</i> ₅₈		10 27.1	18°66	3°3/29.7	18	290239	2005 <i>SS</i> ₈₁		10 27.1	285°97	1°3/28.2	18
9 18	2 31.02	+22 25.6	1.797	2.582	16.7	19.8	9 18	2 33.63	+17 11.7	2.078	2.866	14.7	20.9
9 28	2 27.74	+22 43.9	1.721	2.588	13.7	19.6	9 28	2 29.45	+17 20.8	1.987	2.862	11.8	20.7
10 8	2 21.98	+22 46.3	1.665	2.595	10.1	19.4	10 8	2 23.04	+17 19.3	1.918	2.858	8.3	20.5
10 18	2 14.35	+22 32.3	1.631	2.602	6.2	19.2	10 18	2 14.88	+17 7.4	1.874	2.854	4.5	20.2
10 28	2 5.79	+22 3.5	1.624	2.610	3.4	19.1	10 28	2 5.80	+16 47.0	1.857	2.849	1.3	20.0
11 7	1 57.45	+21 24.1	1.645	2.619	5.0	19.2	11 7	1 56.82	+16 21.9	1.870	2.845	4.3	20.2
11 17	1 50.40	+20 40.3	1.692	2.629	8.6	19.4	11 17	1 48.89	+15 56.4	1.911	2.841	8.2	20.4
11 27	1 45.46	+19 58.8	1.764	2.639	12.1	19.7	11 27	1 42.83	+15 35.3	1.977	2.837	11.7	20.7
175038	2004 <i>FR</i> ₆₂		10 27.1	235°88	0°5/26.8	18	204523	2005 <i>EG</i> ₆₆		10 27.1	205°90	5°5/22.1	18
9 18	2 33.10	+12 53.4	2.035	2.838	14.5	20.3	9 18	2 34.27	- 3 0.4	2.388	3.198	12.3	21.3
9 28	2 28.97	+12 41.3	1.948	2.835	11.4	20.1	9 28	2 29.43	- 3 51.9	2.307	3.193	9.9	21.1
10 8	2 22.64	+12 20.0	1.884	2.832	7.8	19.9	10 8	2 22.72	- 4 42.3	2.250	3.187	7.4	20.9
10 18	2 14.63	+11 51.7	1.845	2.830	3.8	19.6	10 18	2 14.62	- 5 26.7	2.220	3.181	5.7	20.8
10 28	2 5.77	+11 19.7	1.834	2.827	0.7	19.4	10 28	2 5.84	- 5 59.7	2.218	3.174	5.9	20.8
11 7	1 57.05	+10 48.6	1.851	2.824	4.8	19.7	11 7	1 57.20	- 6 17.2	2.245	3.166	7.9	20.9
11 17	1 49.39	+10 22.9	1.897	2.821	8.8	19.9	11 17	1 49.48	- 6 17.2	2.299	3.158	10.4	21.1
11 27	1 43.59	+10 6.5	1.968	2.818	12.2	20.2	11 27	1 43.34	- 5 59.1	2.377	3.149	12.9	21.2
13174	Timossi		10 27.1	324°58	9°5/19.								

EPHEMERIDES

10 27.2

10 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
365373	2009 <i>TE</i> ₄₂	10 27.2 46°89'		4.3/24.3 18			321118	2001 <i>YW</i> ₁₂₂	10 27.2 301°09'		2.6/25.7 18		
9 18	2 35.38	+ 0 28.7	2.020	2.836	14.1	19.8	9 18	2 35.80	+ 7 12.2	1.523	2.350	17.3	20.2
9 28	2 30.49	+ 0 15.6	1.954	2.847	11.1	19.6	9 28	2 32.16	+ 7 6.6	1.427	2.328	13.8	19.9
10 8	2 23.49	+ 0 3.3	1.911	2.858	7.8	19.4	10 8	2 25.52	+ 6 55.6	1.351	2.305	9.6	19.6
10 18	2 14.99	- 0 4.3	1.894	2.870	5.0	19.3	10 18	2 16.37	+ 6 42.1	1.298	2.283	4.9	19.3
10 28	2 5.82	- 0 3.1	1.905	2.882	4.5	19.3	10 28	2 5.72	+ 6 30.9	1.271	2.261	2.9	19.1
11 7	1 56.96	+ 0 9.5	1.945	2.894	6.9	19.5	11 7	1 54.94	+ 6 27.2	1.271	2.239	7.2	19.3
11 17	1 49.27	+ 0 35.1	2.012	2.906	10.0	19.7	11 17	1 45.46	+ 6 35.3	1.296	2.217	12.2	19.5
11 27	1 43.43	+ 1 13.8	2.103	2.918	12.9	19.9	11 27	1 38.46	+ 6 58.5	1.344	2.196	16.7	19.7
23146	2000 <i>AM</i> ₂₀₀	10 27.2 49°92'		8.9/19.7 18 R			215702	2003 <i>YJ</i> ₁₂₂	10 27.2 234°23'		0.1/27.2 18		
9 18	2 31.20	- 9 47.3	1.868	2.694	14.6	17.8	9 18	2 36.50	+ 14 52.8	1.786	2.586	16.3	21.9
9 28	2 27.31	- 11 10.4	1.826	2.711	12.1	17.7	9 28	2 32.16	+ 14 40.0	1.692	2.575	13.0	21.7
10 8	2 21.33	- 12 25.3	1.807	2.729	10.0	17.6	10 8	2 25.16	+ 14 15.0	1.618	2.564	9.0	21.4
10 18	2 13.91	- 13 24.4	1.812	2.746	8.9	17.6	10 18	2 16.05	+ 13 39.1	1.569	2.553	4.5	21.1
10 28	2 5.93	- 14 0.9	1.843	2.764	9.4	17.7	10 28	2 5.76	+ 12 56.0	1.547	2.540	0.4	20.8
11 7	1 58.35	- 14 11.3	1.898	2.782	11.2	17.8	11 7	1 55.53	+ 12 11.3	1.554	2.528	5.3	21.1
11 17	1 52.00	- 13 55.4	1.976	2.801	13.3	18.0	11 17	1 46.52	+ 11 31.0	1.588	2.514	9.9	21.4
11 27	1 47.51	- 13 15.3	2.075	2.819	15.4	18.2	11 27	1 39.73	+ 11 1.1	1.647	2.501	14.0	21.6
296016	2008 <i>YM</i> ₁₃₅	10 27.2 297°48'		8.0/ 2.3 18			293679	2007 <i>PO</i> ₂₈	10 27.2 42°86'		4.3/30.3 18		
9 18	2 34.86	+ 33 22.7	1.812	2.539	18.6	20.5	9 18	2 33.76	+ 24 37.3	1.566	2.349	18.9	20.5
9 28	2 31.42	+ 34 14.3	1.715	2.528	16.2	20.3	9 28	2 30.28	+ 24 54.9	1.496	2.360	15.6	20.3
10 8	2 24.99	+ 34 45.1	1.637	2.517	13.4	20.0	10 8	2 23.93	+ 24 52.7	1.445	2.371	11.6	20.1
10 18	2 16.07	+ 34 50.1	1.578	2.506	10.5	19.9	10 18	2 15.40	+ 24 29.2	1.416	2.383	7.5	19.9
10 28	2 5.70	+ 34 26.6	1.544	2.496	8.3	19.7	10 28	2 5.84	+ 23 46.4	1.412	2.395	4.4	19.7
11 7	1 55.30	+ 33 36.4	1.535	2.485	8.3	19.7	11 7	1 56.61	+ 22 49.8	1.435	2.408	5.7	19.8
11 17	1 46.28	+ 32 25.8	1.552	2.475	10.4	19.8	11 17	1 48.96	+ 21 47.4	1.483	2.421	9.5	20.1
11 27	1 39.79	+ 31 4.9	1.593	2.465	13.4	19.9	11 27	1 43.80	+ 20 48.0	1.556	2.434	13.3	20.4
517905	2015 <i>TZ</i> ₁₀₇	10 27.2 56°65'		7.5/21.7 18			200023	2007 <i>OU</i> ₆	10 27.2 17°11'		2.5/22.9 18		
9 18	2 36.62	- 10 26.1	2.219	3.023	13.4	20.6	9 18	2 22.39	+ 2 39.3	4.022	4.833	7.7	19.3
9 28	2 31.29	- 10 58.4	2.153	3.026	11.1	20.5	9 28	2 19.48	+ 1 52.4	3.943	4.835	6.0	19.2
10 8	2 23.97	- 11 22.8	2.110	3.029	8.9	20.3	10 8	2 15.63	+ 1 4.1	3.890	4.837	4.2	19.0
10 18	2 15.20	- 11 34.1	2.093	3.031	7.6	20.3	10 18	2 11.09	+ 0 17.0	3.865	4.839	2.8	18.9
10 28	2 5.81	- 11 27.4	2.102	3.034	7.8	20.3	10 28	2 6.24	- 0 26.1	3.870	4.841	2.8	19.0
11 7	1 56.71	- 11 0.6	2.139	3.037	9.4	20.4	11 7	2 1.48	- 1 2.6	3.905	4.844	4.2	19.1
11 17	1 48.71	- 10 13.6	2.202	3.040	11.7	20.5	11 17	1 57.16	- 1 30.5	3.969	4.846	6.0	19.2
11 27	1 42.48	- 9 8.4	2.288	3.043	13.8	20.7	11 27	1 53.64	- 1 48.5	4.059	4.849	7.6	19.3
226402	2003 <i>QD</i> ₅₁	10 27.2 19°65'		4.0/30.0 17			302739	2002 <i>UC</i> ₉	10 27.2 354°92'		11.4/20.1 17		
9 18	2 35.93	+ 23 10.6	2.114	2.874	15.3	19.8	9 18	2 20.53	- 5 33.6	0.991	1.878	19.9	19.1
9 28	2 31.34	+ 23 57.1	2.027	2.877	12.6	19.6	9 28	2 20.89	- 7 1.6	0.937	1.864	16.5	18.9
10 8	2 24.39	+ 24 31.1	1.962	2.880	9.5	19.4	10 8	2 18.07	- 8 25.0	0.900	1.854	13.3	18.7
10 18	2 15.57	+ 24 50.8	1.920	2.883	6.3	19.2	10 18	2 12.71	- 9 30.5	0.883	1.846	11.5	18.6
10 28	2 5.77	+ 24 55.7	1.907	2.886	4.1	19.1	10 28	2 6.09	- 10 5.0	0.885	1.840	12.3	18.6
11 7	1 56.04	+ 24 47.8	1.921	2.890	5.1	19.1	11 7	1 59.77	- 10 0.5	0.907	1.838	15.1	18.7
11 17	1 47.44	+ 24 31.0	1.964	2.894	8.1	19.3	11 17	1 55.12	- 9 15.8	0.948	1.839	18.7	19.0
11 27	1 40.83	+ 24 10.9	2.033	2.898	11.2	19.5	11 27	1 53.20	- 7 55.0	1.005	1.842	22.2	19.2
261819	2006 <i>CL</i> ₂₅	10 27.2 329°23'		4.3/30.9 17			300507	2007 <i>TJ</i> ₁₇₄	10 27.2 316°19'		0.1/27.1 18		
9 18	2 31.94	+ 26 9.0	2.101	2.857	15.5	20.2	9 18	2 31.19	+ 15 14.9	1.731	2.542	16.3	21.1
9 28	2 28.31	+ 26 31.8	2.008	2.852	12.9	20.0	9 28	2 27.96	+ 14 51.7	1.645	2.536	12.9	20.9
10 8	2 22.36	+ 26 38.7	1.934	2.847	9.9	19.8	10 8	2 22.25	+ 14 15.0	1.580	2.530	8.9	20.6
10 18	2 14.60	+ 26 28.1	1.884	2.842	6.8	19.7	10 18	2 14.59	+ 13 27.1	1.539	2.524	4.4	20.3
10 28	2 5.86	+ 26 0.4	1.861	2.838	4.5	19.5	10 28	2 5.93	+ 12 32.4	1.524	2.518	0.4	20.0
11 7	1 57.19	+ 25 18.8	1.865	2.833	5.2	19.5	11 7	1 57.40	+ 11 37.4	1.538	2.512	5.2	20.4
11 17	1 49.61	+ 24 28.5	1.897	2.829	8.1	19.7	11 17	1 50.10	+ 10 48.6	1.578	2.507	9.7	20.6
11 27	1 43.96	+ 23 36.6	1.955	2.826	11.3	19.9	11 27	1 44.91	+ 10 11.9	1.642	2.502	13.7	20.9
272207	2005 <i>QM</i> ₂₄	10 27.2 184°76'		1.4/28.0 18			477563	2010 <i>GA</i> ₁₁₅	10 27.2 263°63'		0.6/27.6 18		
9 18	2 36.52	+ 16 50.7	1.598	2.401	17.8	20.8	9 18	2 35.55	+ 15 27.5	1.936	2.731	15.4	22.2
9 28	2 32.38	+ 17 0.0	1.518	2.401	14.3	20.6	9 28	2 31.31	+ 15 27.7	1.833	2.713	12.3	21.9
10 8	2 25.39	+ 16 56.2	1.457	2.401	10.0	20.4	10 8	2 24.56	+ 15 17.1	1.751	2.694	8.7	21.7
10 18	2 16.14	+ 16 39.6	1.419	2.401	5.3	20.1	10 18	2 15.78	+ 14 56.3	1.693	2.676	4.4	21.4
10 28	2 5.72	+ 16 12.7	1.408	2.401	1.4	19.8	10 28	2 5.81	+ 14 27.8	1.664	2.657	0.6	21.0
11 7	1 55.49	+ 15 40.4	1.424	2.401	5.3	20.1	11 7	1 55.79	+ 13 55.9	1.663	2.638	4.9	21.3
11 17	1 46.71	+ 15 9.0	1.467	2.400	10.0	20.4	11 17	1 46.84	+ 13 25.7	1.690	2.618	9.3	21.5
11 27	1 40.40	+ 14 44.7	1.534	2.400	14.2	20.6	11 27	1 39.92	+ 13 2.7	1.742	2.598	13.2	21.7
207977	1996 <i>TL</i> ₃₆	10 27.2 64°09'		5.8/30.8 18			172324	2002 <i>UM</i> ₂₆	10 27.2 287°55'		3.5/24.7 18		
9 18	2 39.95	+ 25 49.8	1.310	2.093	21.9	20.3	9 18	2 34.46	+ 4 17.0	1.888	2.708	14.8	20.1
9 28	2 35.67	+ 26 34.1	1.252	2.112	18.2	20.1	9 28	2 30.29	+ 3 56.1	1.798	2.694	11.7	19.8
10 8	2 27.87	+ 26 55.9	1.210	2.132	13.8	19.8	10 8	2 23.74	+ 3 32.0	1.729	2.680	8.1	19.6
10 18	2 17.37	+ 26 51.7	1.189	2.151	9.3	19.7	10 18	2 15.31	+ 3 8.5	1.685	2.666	4.7	19.4
10 28	2 5.64	+ 26 21.9	1.192	2.171	6.0	19.5	10 28	2 5.86	+ 2 50.5	1.668	2.652	3.8	19.3
11 7	1 54.46	+ 25 32.2	1.220	2.190	7.1	19.7	11 7	1 56.47	+ 2 42.5	1.680	2.638	6.9	19.4
11 17	1 45.36	+ 24 32.0	1.273	2.210	10.8	19.9	11 17	1 48.17	+ 2 47.8	1.719	2.624	10.7	19.6
11 27	1 39.40	+ 23 32.3	1.350	2.229	14.8	20.2	11 27	1 41.84	+ 3 8.4	1.781	2.610	14.3	19.8
474670	2005 <i>BP</i> ₉	10 27.2 351°24'		1.3/27.8 18			403853	2011 <i>UN</i> ₃₁₅	10 27.2 56°73'		2.5/25.2 18		
9 18	2												

EPHEMERIDES

10 27.2

10 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
151359	2002 CG ₃₁₁	10 27.2 88°20'		0°3'/26.9 18			434322	2004 GT ₈₀	10 27.2 211°06'		2°0'/25.5 15		
9 18	2 32.52	+13 18.2	2.184	2.983	13.7	20.4	9 18	2 34.20	+11 13.4	1.848	2.658	15.4	22.3
9 28	2 28.31	+13 7.8	2.104	2.988	10.8	20.2	9 28	2 30.09	+10 22.8	1.761	2.653	12.1	22.1
10 8	2 22.10	+12 48.9	2.046	2.993	7.4	20.0	10 8	2 23.58	+9 20.9	1.696	2.648	8.2	21.8
10 18	2 14.39	+12 23.2	2.014	2.999	3.6	19.7	10 18	2 15.22	+8 11.5	1.656	2.641	4.1	21.6
10 28	2 5.97	+11 54.0	2.011	3.004	0.5	19.5	10 28	2 5.92	+7 0.9	1.645	2.635	2.3	21.4
11 7	1 57.74	+11 25.3	2.037	3.010	4.4	19.8	11 7	1 56.78	+5 56.1	1.662	2.627	6.1	21.7
11 17	1 50.53	+11 1.1	2.091	3.015	8.0	20.1	11 17	1 48.82	+5 3.5	1.707	2.620	10.3	21.9
11 27	1 45.03	+10 45.1	2.171	3.021	11.3	20.3	11 27	1 42.89	+4 27.8	1.776	2.611	14.0	22.1
155283	2005 WS ₁₈₇	10 27.2 302°30'		10°4'/18.6 18			402465	2006 BU ₁₅₇	10 27.2 305°93'		2°7'/29.3 17		
9 18	2 35.72	-18 0.7	2.126	2.921	14.2	20.0	9 18	2 32.10	+21 9.7	2.114	2.891	14.8	21.1
9 28	2 30.80	-19 0.3	2.067	2.917	12.4	19.8	9 28	2 28.43	+21 26.9	2.013	2.876	12.1	20.8
10 8	2 23.76	-19 47.2	2.029	2.913	11.0	19.7	10 8	2 22.49	+21 31.5	1.933	2.862	8.9	20.6
10 18	2 15.17	-20 14.5	2.014	2.910	10.4	19.7	10 18	2 14.74	+21 22.7	1.877	2.849	5.4	20.4
10 28	2 5.91	-20 16.2	2.024	2.906	10.8	19.7	10 28	2 5.96	+21 1.4	1.848	2.835	2.8	20.2
11 7	1 56.93	-19 49.8	2.059	2.902	12.2	19.8	11 7	1 57.17	+20 30.8	1.847	2.822	4.5	20.3
11 17	1 49.12	-18 55.9	2.117	2.899	14.0	19.9	11 17	1 49.36	+19 55.6	1.875	2.808	8.1	20.5
11 27	1 43.18	-17 37.7	2.194	2.896	15.8	20.1	11 27	1 43.41	+19 21.7	1.928	2.796	11.6	20.7
275825	2001 RD ₆₉	10 27.2 3°15'		4°4'/29.9 18			433681	2014 EH ₃₃	10 27.2 25°13'		1°8'/24.5 18		
9 18	2 34.10	+23 23.8	1.441	2.235	19.8	20.0	9 18	2 24.26	+5 15.1	4.031	4.834	7.8	20.8
9 28	2 30.98	+23 51.7	1.363	2.234	16.3	19.8	9 28	2 20.94	+4 52.4	3.947	4.836	6.1	20.7
10 8	2 24.72	+24 0.5	1.303	2.234	12.2	19.6	10 8	2 16.63	+4 27.8	3.889	4.838	4.1	20.5
10 18	2 15.94	+23 47.9	1.265	2.235	7.8	19.3	10 18	2 11.61	+4 3.3	3.859	4.840	2.3	20.4
10 28	2 5.82	+23 14.9	1.251	2.235	4.5	19.1	10 28	2 6.26	+3 41.0	3.859	4.842	1.9	20.4
11 7	1 55.89	+22 26.4	1.262	2.237	6.1	19.2	11 7	2 0.99	+3 23.2	3.890	4.844	3.5	20.5
11 17	1 47.59	+21 30.6	1.299	2.238	10.4	19.5	11 17	1 56.19	+3 11.4	3.950	4.846	5.5	20.7
11 27	1 42.01	+20 37.1	1.359	2.240	14.6	19.7	11 27	1 52.20	+3 7.0	4.037	4.848	7.3	20.8
244391	2002 PB ₇₅	10 27.2 60°66'		3°9'/30.6 18			442272	2011 QB ₆₂	10 27.2 115°11'		5°2'/31.9 18		
9 18	2 33.68	+26 23.7	1.670	2.440	18.4	20.7	9 18	2 39.58	+29 41.3	2.249	2.967	15.6	22.0
9 28	2 29.86	+26 10.8	1.606	2.462	15.1	20.5	9 28	2 34.00	+30 11.8	2.172	2.987	13.2	21.8
10 8	2 23.41	+25 35.9	1.562	2.484	11.2	20.3	10 8	2 26.06	+30 25.1	2.116	3.007	10.3	21.7
10 18	2 15.05	+24 39.1	1.540	2.506	7.1	20.2	10 18	2 16.36	+30 19.1	2.084	3.026	7.4	21.5
10 28	2 5.92	+23 24.1	1.545	2.528	4.0	20.0	10 28	2 5.85	+29 53.5	2.080	3.044	5.4	21.4
11 7	1 57.26	+21 58.1	1.577	2.551	5.2	20.2	11 7	1 55.62	+29 11.7	2.104	3.062	5.7	21.5
11 17	1 50.15	+20 30.1	1.636	2.573	8.8	20.4	11 17	1 46.68	+28 19.0	2.156	3.079	7.9	21.7
11 27	1 45.37	+19 9.0	1.721	2.596	12.4	20.7	11 27	1 39.80	+27 22.4	2.236	3.096	10.6	21.9
347948	2003 MW ₅	10 27.2 32°58'		12°8'/20.0 18			351451	2005 JO ₁₆₀	10 27.2 303°70'		2°7'/25.3 18		
9 18	2 32.93	-12 7.8	1.169	2.021	20.0	18.9	9 18	2 33.66	+6 56.5	1.829	2.649	15.2	21.2
9 28	2 29.66	-13 47.2	1.145	2.042	16.8	18.7	9 28	2 29.66	+6 34.1	1.747	2.644	11.9	20.9
10 8	2 23.35	-15 10.5	1.139	2.064	14.2	18.7	10 8	2 23.29	+6 6.1	1.686	2.640	8.2	20.7
10 18	2 14.98	-16 5.8	1.153	2.087	12.9	18.7	10 18	2 15.09	+5 36.3	1.651	2.635	4.3	20.5
10 28	2 5.94	-16 24.5	1.189	2.111	13.4	18.8	10 28	2 5.97	+5 9.5	1.643	2.631	3.0	20.4
11 7	1 57.67	-16 4.2	1.246	2.137	15.3	19.0	11 7	1 56.99	+4 50.5	1.663	2.626	6.4	20.6
11 17	1 51.30	-15 8.0	1.323	2.163	17.8	19.2	11 17	1 49.19	+4 43.2	1.710	2.622	10.3	20.8
11 27	1 47.57	-13 42.4	1.418	2.189	20.1	19.5	11 27	1 43.39	+4 50.2	1.780	2.618	13.9	21.0
103451	2000 AM ₁₉₃	10 27.2 249°22'		4°3'/31.2 18			244966	2004 BC ₁	10 27.2 193°82'		0°5'/27.6 18		
9 18	2 32.50	+28 14.3	2.079	2.825	16.0	19.7	9 18	2 32.71	+16 41.2	2.157	2.947	14.2	21.9
9 28	2 28.82	+28 7.6	1.978	2.815	13.4	19.5	9 28	2 28.60	+16 21.2	2.069	2.946	11.3	21.7
10 8	2 22.76	+27 41.0	1.896	2.805	10.3	19.3	10 8	2 22.39	+15 49.4	2.002	2.944	7.8	21.5
10 18	2 14.84	+26 53.2	1.838	2.795	7.0	19.1	10 18	2 14.60	+15 7.2	1.960	2.943	4.0	21.3
10 28	2 5.93	+25 45.4	1.807	2.785	4.5	18.9	10 28	2 6.02	+14 18.2	1.947	2.941	0.5	21.0
11 7	1 57.12	+24 22.5	1.805	2.775	5.2	18.9	11 7	1 57.57	+13 27.1	1.964	2.938	4.3	21.3
11 17	1 49.45	+22 51.8	1.830	2.764	8.3	19.1	11 17	1 50.16	+12 39.2	2.009	2.936	8.1	21.5
11 27	1 43.78	+21 22.2	1.882	2.753	11.7	19.3	11 27	1 44.51	+11 59.7	2.080	2.933	11.5	21.7
86995	2000 JG ₃₇	10 27.2 117°22'		0°3'/26.9 18			180332	2003 YQ ₂₁	10 27.2 244°56'		1°9'/25.9 18		
9 18	2 37.21	+13 54.9	1.831	2.630	16.0	19.7	9 18	2 35.93	+10 19.1	1.732	2.546	16.2	20.8
9 28	2 32.27	+13 38.0	1.761	2.645	12.6	19.5	9 28	2 31.76	+9 50.6	1.640	2.533	12.8	20.5
10 8	2 24.91	+13 10.4	1.712	2.659	8.6	19.3	10 8	2 24.94	+9 12.3	1.568	2.520	8.8	20.3
10 18	2 15.78	+12 34.3	1.689	2.673	4.1	19.0	10 18	2 15.99	+8 27.4	1.521	2.507	4.3	20.0
10 28	2 5.86	+11 53.7	1.693	2.687	0.6	18.8	10 28	2 5.88	+7 41.1	1.502	2.493	2.2	19.8
11 7	1 56.28	+11 14.1	1.727	2.700	5.0	19.2	11 7	1 55.82	+6 59.6	1.510	2.478	6.3	20.1
11 17	1 48.06	+10 40.6	1.788	2.712	9.2	19.4	11 17	1 46.98	+6 28.8	1.546	2.463	10.8	20.3
11 27	1 41.97	+10 17.7	1.875	2.724	12.8	19.7	11 27	1 40.36	+6 13.2	1.605	2.448	14.9	20.5
494255	2016 QX ₃₀	10 27.2 350°18'		1°4'/26.4 16			398312	2011 EZ ₇₇	10 27.2 105°09'		11°2'/17.5 17		
9 18	2 29.53	+10 58.1	1.131	1.985	20.4	21.2	9 18	2 32.62	+0 4.9	1.101	1.963	20.3	20.4
9 28	2 27.87	+10 55.2	1.060	1.976	16.2	20.9	9 28	2 29.92	-3 26.7	1.054	1.970	16.2	20.2
10 8	2 22.87	+10 40.9	1.007	1.968	11.1	20.6	10 8	2 23.92	-7 5.7	1.029	1.977	12.7	20.0
10 18	2 15.12	+10 18.3	0.974	1.962	5.4	20.2	10 18	2 15.47	-10 31.3	1.028	1.984	11.2	19.9
10 28	2 5.90	+9 53.1	0.964	1.957	1.7	20.0	10 28	2 5.95	-13 22.4	1.052	1.991	12.9	20.1
11 7	1 56.86	+9 32.2	0.978	1.953	7.2	20.3	11 7	1 56.98	-15 24.7	1.099	1.998	16.2	20.3
11 17	1 49.57	+9 22.3	1.015	1.952	12.9	20.6	11 17	1 49.92	-16 33.8	1.166	2.004	19.7	20.5
11 27	1 45.21	+9 28.3	1.071	1.951	17.8	20.9	11 27	1 45.71	-16 53.2	1.249	2.011	22.8	20.8
173385	2000 CU ₃₆	10 27.2 268°87'		6°1'/31.9 18			243940	2001 PT ₃₃	10 27.2 100°79'		0°8'/26.6 18		
9 18	2 36.12	+30 6.4	2.103	2.832	16.3	20.5	9 18	2 36.32	+11 34.5	2.102	2.89		

EPHEMERIDES

10 27.2

10 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
151398	2002 <i>EH</i> ₈₉	10 27.2 103°90			4.4/31.6 18			214009	2004 <i>CJ</i> ₅₄	10 27.2 150°18			0.1/27.3 18	
9 18	2 36.69	+28 27.5	2.634	3.352	13.6	19.9	9 18	2 33.64	+15 10.2	2.435	3.219	12.9	21.8	
9 28	2 31.37	+28 57.0	2.556	3.373	11.4	19.8	9 28	2 28.98	+14 52.2	2.352	3.227	10.2	21.7	
10 8	2 24.09	+29 12.3	2.500	3.392	8.8	19.6	10 8	2 22.46	+14 24.7	2.292	3.235	7.0	21.5	
10 18	2 15.36	+29 11.9	2.468	3.412	6.3	19.5	10 18	2 14.59	+13 49.6	2.259	3.242	3.4	21.3	
10 28	2 5.96	+28 55.9	2.464	3.431	4.5	19.4	10 28	2 6.08	+13 9.8	2.255	3.248	0.3	21.0	
11 7	1 56.77	+28 26.7	2.490	3.449	4.9	19.5	11 7	1 57.76	+12 29.4	2.281	3.255	3.9	21.3	
11 17	1 48.61	+27 48.5	2.545	3.468	6.9	19.6	11 17	1 50.38	+11 52.6	2.337	3.260	7.4	21.5	
11 27	1 42.14	+27 6.6	2.628	3.485	9.2	19.8	11 27	1 44.59	+11 23.2	2.420	3.265	10.4	21.8	
342130	2008 <i>SZ</i> ₁₂₀	10 27.2 50°70			0.2/27.0 18			47756	2000 <i>DO</i> ₉₆	10 27.2 297°15			2.2/28.9 18	
9 18	2 32.29	+16 2.7	1.454	2.273	18.4	21.3	9 18	2 33.37	+20 16.1	1.865	2.651	16.2	19.3	
9 28	2 29.02	+15 24.9	1.392	2.287	14.5	21.1	9 28	2 29.61	+20 20.2	1.777	2.648	13.1	19.1	
10 8	2 22.99	+14 30.9	1.349	2.301	9.9	20.9	10 8	2 23.37	+20 9.6	1.710	2.645	9.5	18.9	
10 18	2 14.94	+13 24.3	1.330	2.316	4.8	20.7	10 18	2 15.20	+19 44.3	1.666	2.642	5.4	18.7	
10 28	2 6.01	+12 11.6	1.337	2.331	0.6	20.4	10 28	2 6.02	+19 6.5	1.649	2.639	2.3	18.5	
11 7	1 57.51	+11 1.2	1.371	2.346	5.7	20.8	11 7	1 56.96	+18 20.9	1.660	2.636	4.7	18.6	
11 17	1 50.58	+10 1.0	1.431	2.362	10.4	21.1	11 17	1 49.11	+17 33.5	1.699	2.634	8.8	18.8	
11 27	1 46.06	+9 17.1	1.514	2.377	14.5	21.4	11 27	1 43.35	+16 50.9	1.763	2.631	12.5	19.1	
169475	2002 <i>CZ</i> ₁₁₄	10 27.2 191°21			3.2/24.9 18			421740	2014 <i>PJ</i> ₄₅	10 27.2 292°46			3.1/24.5 18	
9 18	2 38.23	+6 35.5	1.801	2.614	15.7	20.6	9 18	2 30.39	+6 12.2	2.106	2.925	13.5	21.1	
9 28	2 33.25	+5 58.5	1.720	2.613	12.3	20.4	9 28	2 26.83	+5 32.4	2.017	2.914	10.6	20.9	
10 8	2 25.75	+5 15.2	1.660	2.611	8.5	20.2	10 8	2 21.24	+4 47.0	1.950	2.902	7.3	20.7	
10 18	2 16.30	+4 29.9	1.626	2.608	4.6	19.9	10 18	2 14.09	+4 0.0	1.909	2.891	4.1	20.5	
10 28	2 5.88	+3 48.3	1.620	2.605	3.6	19.9	10 28	2 6.12	+3 16.5	1.896	2.880	3.4	20.4	
11 7	1 55.66	+3 16.3	1.642	2.601	6.9	20.1	11 7	1 58.24	+2 41.7	1.911	2.868	6.3	20.6	
11 17	1 46.72	+2 58.3	1.692	2.597	10.9	20.3	11 17	1 51.31	+2 19.6	1.954	2.857	9.7	20.8	
11 27	1 39.95	+2 57.0	1.766	2.591	14.5	20.5	11 27	1 46.05	+2 13.0	2.021	2.846	12.9	21.0	
434223	2003 <i>ST</i> ₁₇₁	10 27.2 68°08			2.6/29.1 18			143781	2003 <i>WE</i> ₆₈	10 27.2 250°36			1.7/28.4 18	
9 18	2 37.97	+21 21.8	1.640	2.423	18.2	21.1	9 18	2 34.44	+19 52.6	1.616	2.412	17.9	20.5	
9 28	2 33.09	+21 22.7	1.585	2.453	14.6	21.0	9 28	2 30.91	+19 37.1	1.524	2.402	14.5	20.2	
10 8	2 25.53	+21 6.4	1.549	2.483	10.4	20.8	10 8	2 24.54	+19 3.4	1.452	2.392	10.4	20.0	
10 18	2 16.09	+20 33.4	1.537	2.512	6.0	20.6	10 18	2 15.88	+18 11.7	1.402	2.382	5.7	19.7	
10 28	2 5.92	+19 47.0	1.552	2.541	2.6	20.5	10 28	2 5.96	+17 5.8	1.380	2.372	1.7	19.4	
11 7	1 56.30	+18 53.4	1.595	2.570	4.9	20.7	11 7	1 56.12	+15 52.5	1.384	2.361	5.3	19.6	
11 17	1 48.31	+17 59.6	1.665	2.599	8.9	21.0	11 17	1 47.66	+14 40.4	1.415	2.350	10.2	19.9	
11 27	1 42.73	+17 12.5	1.760	2.628	12.5	21.3	11 27	1 41.62	+13 38.2	1.471	2.339	14.5	20.1	
401574	2013 <i>FN</i> ₂₀	10 27.2 248°76			1.3/26.2 18			366989	2005 <i>YS</i> ₈₁	10 27.2 169°49			4.8/22.6 18	
9 18	2 32.08	+11 6.0	2.064	2.872	14.1	21.0	9 18	2 30.72	-0 19.0	2.354	3.172	12.3	20.9	
9 28	2 28.14	+10 42.9	1.981	2.871	11.1	20.8	9 28	2 26.71	-1 10.7	2.280	3.173	9.7	20.7	
10 8	2 22.10	+10 11.6	1.919	2.870	7.5	20.5	10 8	2 20.92	-2 2.8	2.229	3.174	7.0	20.6	
10 18	2 14.47	+9 34.9	1.884	2.869	3.6	20.3	10 18	2 13.84	-2 50.6	2.205	3.174	5.0	20.4	
10 28	2 6.05	+8 56.8	1.877	2.868	1.5	20.2	10 28	2 6.15	-3 29.0	2.210	3.175	5.1	20.5	
11 7	1 57.79	+8 22.1	1.898	2.867	5.1	20.4	11 7	1 58.64	-3 53.8	2.243	3.175	7.2	20.6	
11 17	1 50.57	+7 55.2	1.947	2.866	8.9	20.6	11 17	1 52.02	-4 2.5	2.303	3.176	9.8	20.8	
11 27	1 45.13	+7 39.7	2.022	2.865	12.2	20.8	11 27	1 46.92	-3 54.3	2.386	3.176	12.3	20.9	
507272	2011 <i>EK</i> ₃₆	10 27.2 118°80			4.8/30.2 17			223987	2005 <i>BE</i> ₁	10 27.2 93°38			12.1/31.4 17	
9 18	2 42.17	+24 9.5	1.793	2.550	17.8	21.7	9 18	2 54.35	+29 47.0	1.202	1.954	25.1	19.4	
9 28	2 36.71	+25 1.8	1.714	2.561	14.7	21.5	9 28	2 48.85	+32 28.2	1.131	1.960	21.8	19.2	
10 8	2 28.32	+25 39.0	1.656	2.571	11.2	21.3	10 8	2 38.35	+34 53.9	1.078	1.966	18.1	19.0	
10 18	2 17.64	+25 58.1	1.620	2.581	7.5	21.1	10 18	2 23.27	+36 50.2	1.044	1.972	14.5	18.8	
10 28	2 5.78	+25 57.9	1.612	2.590	4.9	21.0	10 28	2 5.28	+38 4.4	1.033	1.978	12.3	18.7	
11 7	1 54.11	+25 41.1	1.632	2.599	6.0	21.1	11 7	1 47.07	+38 32.1	1.046	1.984	12.7	18.7	
11 17	1 43.95	+25 13.1	1.680	2.608	9.3	21.3	11 17	1 31.44	+38 19.5	1.082	1.990	15.3	18.9	
11 27	1 36.31	+24 41.3	1.752	2.617	12.8	21.6	11 27	1 20.43	+37 42.0	1.139	1.996	18.7	19.1	
481651	2007 <i>VJ</i> ₁₇₅	10 27.2 145°66			1.8/25.7 18			9800	Shigetoshi	10 27.2 77°35			2.2/25.7 18	
9 18	2 34.52	+9 18.1	2.100	2.906	14.0	21.9	9 18	2 37.28	+10 21.5	1.473	2.295	18.1	18.0	
9 28	2 29.91	+8 53.3	2.023	2.912	10.9	21.7	9 28	2 32.68	+9 43.4	1.420	2.318	14.1	17.8	
10 8	2 23.22	+8 22.0	1.968	2.918	7.4	21.5	10 8	2 25.34	+8 55.3	1.386	2.340	9.5	17.6	
10 18	2 14.98	+7 47.0	1.939	2.923	3.7	21.3	10 18	2 16.04	+8 2.3	1.377	2.363	4.6	17.4	
10 28	2 6.02	+7 12.6	1.939	2.929	2.0	21.2	10 28	2 5.97	+7 10.7	1.395	2.385	2.5	17.3	
11 7	1 57.27	+6 43.3	1.968	2.933	5.3	21.4	11 7	1 56.47	+6 27.5	1.440	2.407	6.6	17.6	
11 17	1 49.61	+6 22.9	2.025	2.938	8.9	21.7	11 17	1 48.63	+5 58.0	1.511	2.429	11.0	17.9	
11 27	1 43.74	+6 14.3	2.107	2.942	12.1	21.9	11 27	1 43.26	+5 45.5	1.605	2.451	14.7	18.2	
445341	2010 <i>LU</i> ₆₃	10 27.2 54°10			7.8/21.1 18			161013	2002 <i>EF</i> ₇₄	10 27.2 156°72			0.1/27.3 18	
9 18	2 31.72	-3 34.8	1.629	2.467	15.9	20.9	9 18	2 33.66	+16 8.3	2.044	2.836	14.7	20.5	
9 28	2 28.03	-5 5.2	1.585	2.485	12.7	20.7	9 28	2 29.40	+15 36.8	1.962	2.842	11.7	20.3	
10 8	2 22.02	-6 32.5	1.562	2.504	9.7	20.6	10 8	2 22.96	+14 52.8	1.902	2.846	8.0	20.1	
10 18	2 14.37	-7 48.2	1.564	2.522	7.9	20.5	10 18	2 14.90	+13 58.3	1.867	2.851	4.0	19.9	
10 28	2 6.09	-8 43.9	1.592	2.541	8.4	20.6	10 28	2 6.07	+12 57.8	1.861	2.854	0.3	19.6	
11 7	1 58.26	-9 14.5	1.645	2.561	10.6	20.8	11 7	1 57.46	+11 57.0	1.884	2.858	4.6	20.0	
11 17	1 51.81	-9 18.1	1.722	2.580	13.4	21.0	11 17	1 49.98	+11 1.6	1.936	2.861	8.5	20.2	
11 27	1 47.41	-8 56.3	1.820	2.600	16.0	21.2	11 27	1 44.36	+10 17.1	2.013	2.864	12.0	20.4	
269495	2009 <i>UB</i> ₃₂	10 27.2 320°83			0.1/27.3 17			68803	2002 <i>GT</i> ₂₅	10 27.2 123°78			2.5/29.9 18	
9 18	2 29.54	+15 7.8	2.042	2.846	14.4	20.9	9 18	2 33.15	+23 46.3	2.822	3.566	12.2	20.4	
9 28	2													

EPHEMERIDES

10 27.2

10 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
218521	2004 <i>TA</i> ₂₅₅		10 27.2 75°29	2:2/25.0	18		458449	2011 <i>BB</i> ₅		10 27.2 194°41	4:2/31.7	18	
9 18	2 29.51	+ 9 36.6	2.161	2.975	13.3	20.7	9 18	2 31.65	+28 40.4	2.496	3.227	13.9	21.0
9 28	2 25.94	+ 8 43.7	2.086	2.981	10.4	20.5	9 28	2 27.71	+28 48.7	2.401	3.227	11.7	20.9
10 8	2 20.49	+ 7 42.9	2.034	2.987	7.0	20.3	10 8	2 21.78	+28 41.1	2.327	3.226	9.1	20.7
10 18	2 13.65	+ 6 38.1	2.008	2.993	3.6	20.1	10 18	2 14.35	+28 16.5	2.276	3.226	6.4	20.5
10 28	2 6.18	+ 5 34.9	2.011	2.998	2.5	20.1	10 28	2 6.14	+27 35.6	2.253	3.225	4.4	20.4
11 7	1 58.93	+ 4 38.8	2.042	3.004	5.5	20.3	11 7	1 58.06	+26 41.6	2.259	3.224	4.8	20.4
11 17	1 52.65	+ 3 54.4	2.102	3.010	8.9	20.5	11 17	1 50.92	+25 39.5	2.294	3.223	7.1	20.6
11 27	1 48.00	+ 3 25.1	2.186	3.016	11.9	20.7	11 27	1 45.45	+24 35.6	2.355	3.222	9.8	20.7
168126	Chengbruce		10 27.2 174°24	4:0/23.7	18		264321	1999 <i>TT</i> ₂₀₉		10 27.2 339°98	3:8/25.6	18	
9 18	2 32.35	+ 5 14.1	1.967	2.787	14.2	20.4	9 18	2 33.42	+ 5 27.5	1.113	1.969	20.5	20.1
9 28	2 28.37	+ 4 8.8	1.891	2.789	11.1	20.2	9 28	2 31.09	+ 5 26.1	1.040	1.956	16.3	19.8
10 8	2 22.25	+ 2 57.6	1.839	2.790	7.7	20.0	10 8	2 25.23	+ 5 20.5	0.984	1.945	11.3	19.5
10 18	2 14.55	+ 1 45.9	1.812	2.791	4.7	19.8	10 18	2 16.41	+ 5 15.4	0.949	1.934	6.1	19.2
10 28	2 6.11	+ 0 40.4	1.813	2.792	4.4	19.8	10 28	2 5.95	+ 5 16.9	0.936	1.925	4.1	19.0
11 7	1 57.87	- 0 12.4	1.843	2.792	7.2	20.0	11 7	1 55.60	+ 5 30.5	0.948	1.918	8.7	19.3
11 17	1 50.74	- 0 48.2	1.900	2.792	10.6	20.2	11 17	1 47.04	+ 6 0.0	0.982	1.911	14.1	19.6
11 27	1 45.43	- 1 4.5	1.980	2.792	13.7	20.4	11 27	1 41.59	+ 6 46.9	1.035	1.906	19.0	19.8
178059	2006 <i>SJ</i> ₃₂		10 27.2 325°83	1:6/28.3	18		385774	2006 <i>AA</i> ₁₄		10 27.2 18°50	2:3/25.7	18	
9 18	2 32.85	+17 43.7	1.759	2.559	16.5	20.2	9 18	2 30.66	+10 50.5	1.272	2.116	19.2	20.5
9 28	2 29.38	+17 54.3	1.670	2.551	13.3	19.9	9 28	2 28.18	+10 13.3	1.210	2.120	15.0	20.3
10 8	2 23.34	+17 52.2	1.601	2.543	9.5	19.7	10 8	2 22.70	+ 9 23.7	1.166	2.126	10.2	20.0
10 18	2 15.25	+17 37.5	1.556	2.536	5.2	19.4	10 18	2 14.94	+ 8 26.8	1.145	2.132	5.0	19.8
10 28	2 6.04	+17 12.3	1.537	2.529	1.7	19.2	10 28	2 6.10	+ 7 30.2	1.149	2.140	2.6	19.6
11 7	1 56.90	+16 41.1	1.546	2.522	4.9	19.4	11 7	1 57.64	+ 6 42.3	1.177	2.148	7.2	19.9
11 17	1 48.97	+16 9.3	1.581	2.516	9.3	19.6	11 17	1 50.83	+ 6 9.7	1.230	2.157	12.1	20.2
11 27	1 43.21	+15 43.0	1.641	2.510	13.2	19.8	11 27	1 46.62	+ 5 56.9	1.304	2.167	16.4	20.5
141110	2001 <i>XY</i> ₆₂		10 27.2 338°31	0:6/26.8	18		260811	2005 <i>OW</i> ₅		10 27.2 162°47	3:6/30.5	18	
9 18	2 27.41	+13 51.9	1.512	2.343	17.3	18.9	9 18	2 34.37	+25 24.0	2.297	3.045	14.6	21.0
9 28	2 25.46	+13 30.5	1.425	2.328	13.7	18.6	9 28	2 29.94	+25 36.4	2.207	3.048	12.1	20.9
10 8	2 20.84	+12 55.3	1.358	2.313	9.5	18.3	10 8	2 23.36	+25 33.8	2.137	3.050	9.1	20.7
10 18	2 14.08	+12 8.9	1.313	2.300	4.6	18.0	10 18	2 15.14	+25 15.2	2.092	3.053	6.0	20.5
10 28	2 6.14	+11 16.5	1.294	2.287	0.9	17.7	10 28	2 6.08	+24 41.7	2.075	3.055	3.8	20.4
11 7	1 58.26	+10 25.2	1.301	2.276	5.9	18.0	11 7	1 57.17	+23 56.7	2.087	3.057	4.6	20.4
11 17	1 51.66	+ 9 42.3	1.333	2.266	10.8	18.3	11 17	1 49.30	+23 5.2	2.128	3.059	7.5	20.6
11 27	1 47.31	+ 9 13.8	1.387	2.257	15.2	18.5	11 27	1 43.25	+22 13.4	2.195	3.060	10.5	20.8
471534	2012 <i>HN</i> ₆₃		10 27.2 196°49	1:9/25.9	17		393489	2002 <i>PD</i> ₁₇₆		10 27.2 67°18	4:1/30.6	18	
9 18	2 37.66	+ 9 56.7	1.733	2.543	16.3	22.1	9 18	2 34.19	+25 31.6	1.771	2.539	17.6	21.0
9 28	2 32.99	+ 9 31.8	1.650	2.541	12.8	21.9	9 28	2 30.32	+25 39.8	1.698	2.551	14.5	20.8
10 8	2 25.69	+ 8 58.1	1.588	2.539	8.7	21.6	10 8	2 23.85	+25 28.7	1.643	2.563	10.9	20.6
10 18	2 16.34	+ 8 18.9	1.551	2.536	4.3	21.4	10 18	2 15.42	+24 57.6	1.611	2.575	7.1	20.4
10 28	2 5.95	+ 7 39.1	1.542	2.533	2.2	21.2	10 28	2 6.06	+24 8.2	1.605	2.588	4.2	20.3
11 7	1 55.74	+ 7 4.7	1.561	2.529	6.2	21.5	11 7	1 57.02	+23 6.0	1.627	2.600	5.3	20.4
11 17	1 46.85	+ 6 40.6	1.607	2.524	10.6	21.7	11 17	1 49.38	+21 58.4	1.676	2.612	8.7	20.6
11 27	1 40.21	+ 6 30.9	1.678	2.519	14.4	21.9	11 27	1 44.02	+20 53.5	1.751	2.624	12.3	20.8
374232	2005 <i>GF</i> ₂₇		10 27.2 212°82	3:7/29.8	16		134109	Britneyburch		10 27.2 214°65	6:1/2.9	17	
9 18	2 39.19	+23 24.5	1.865	2.627	17.0	21.9	9 18	2 34.10	+35 22.7	2.798	3.477	13.6	20.8
9 28	2 34.40	+23 43.0	1.768	2.621	14.0	21.6	9 28	2 29.64	+35 55.3	2.696	3.473	11.9	20.7
10 8	2 26.81	+23 45.6	1.692	2.614	10.5	21.4	10 8	2 23.14	+36 11.7	2.613	3.468	9.9	20.5
10 18	2 16.98	+23 30.3	1.639	2.606	6.6	21.2	10 18	2 15.04	+36 9.3	2.554	3.463	7.8	20.4
10 28	2 5.89	+22 57.6	1.613	2.597	3.8	21.0	10 28	2 6.09	+35 47.2	2.520	3.458	6.4	20.3
11 7	1 54.84	+22 11.3	1.616	2.588	5.4	21.0	11 7	1 57.18	+35 7.0	2.514	3.453	6.2	20.3
11 17	1 45.08	+21 17.9	1.646	2.578	9.2	21.3	11 17	1 49.18	+34 12.4	2.537	3.447	7.5	20.3
11 27	1 37.65	+20 25.4	1.703	2.567	13.0	21.5	11 27	1 42.84	+33 9.6	2.586	3.441	9.5	20.5
365753	2010 <i>WL</i> ₆₀		10 27.2 353°47	1:9/28.9	18		454729	2014 <i>TR</i> ₃₇		10 27.2 43°69	3:0/24.0	18	
9 18	2 28.99	+21 19.6	1.895	2.684	15.8	20.5	9 18	2 27.83	+ 8 21.3	2.151	2.971	13.2	20.8
9 28	2 26.08	+20 57.5	1.809	2.682	12.8	20.3	9 28	2 24.64	+ 7 5.1	2.078	2.977	10.2	20.6
10 8	2 20.90	+20 18.3	1.743	2.680	9.2	20.1	10 8	2 19.61	+ 5 40.8	2.029	2.983	6.9	20.4
10 18	2 13.96	+19 23.0	1.701	2.678	5.2	19.8	10 18	2 13.24	+ 4 13.7	2.006	2.989	3.8	20.2
10 28	2 6.16	+18 15.2	1.686	2.677	1.9	19.6	10 28	2 6.27	+ 2 50.3	2.013	2.995	3.4	20.2
11 7	1 58.53	+17 1.1	1.699	2.676	4.5	19.8	11 7	1 59.51	+ 1 37.1	2.048	3.002	6.2	20.4
11 17	1 52.05	+15 48.0	1.740	2.676	8.5	20.0	11 17	1 53.72	+ 0 39.1	2.110	3.009	9.4	20.6
11 27	1 47.49	+14 43.0	1.806	2.676	12.2	20.3	11 27	1 49.49	- 0 0.5	2.198	3.015	12.3	20.8
362804	2011 <i>YR</i> ₄		10 27.2 351°22	3:2/29.7	18		86354	1999 <i>XB</i> ₁₁₆		10 27.2 9°83	3:7/29.9	18	
9 18	2 31.97	+22 36.5	1.826	2.608	16.6	20.7	9 18	2 33.82	+22 31.6	1.886	2.662	16.4	19.0
9 28	2 28.62	+22 48.5	1.740	2.606	13.6	20.5	9 28	2 30.01	+23 6.7	1.803	2.663	13.5	18.8
10 8	2 22.75	+22 44.3	1.674	2.604	10.1	20.2	10 8	2 23.68	+23 27.9	1.739	2.665	10.0	18.6
10 18	2 14.93	+22 23.2	1.631	2.602	6.2	20.0	10 18	2 15.39	+23 33.5	1.700	2.667	6.4	18.4
10 28	2 6.08	+21 46.8	1.614	2.601	3.3	19.8	10 28	2 6.08	+23 24.0	1.687	2.670	3.8	18.2
11 7	1 57.36	+20 59.7	1.625	2.599	5.0	19.9	11 7	1 56.88	+23 2.2	1.701	2.674	5.2	18.3
11 17	1 49.87	+20 8.0	1.662	2.599	8.7	20.2	11 17	1 48.90	+22 33.3	1.743	2.677	8.6	18.5
11 27	1 44.51	+19 19.1	1.725	2.599	12.4	20.4	11 27	1 43.05	+22 3.5	1.810	2.682	12.0	18.8
40851	1999 <i>TZ</i> ₁₀₄		10 27.2 96°35	0:9/28.0	18		199033	2005 <i>WU</i> ₁₃₉		10 27.2 258°24	0:3/27.		

EPHEMERIDES

10 27.2

10 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
350014	2010 <i>JX</i> ₁₄		10 27.2 170°07'		5°3'/22.6 18		449079	2012 <i>HG</i> ₅₅		10 27.2 284°58'		1°3'/25.8 17	
9 18	2 35.72	- 2 33.8	2.322	3.130	12.7	21.1	9 18	2 28.23	+13 43.7	2.274	3.078	13.1	20.9
9 28	2 30.60	- 3 20.5	2.249	3.134	10.1	20.9	9 28	2 25.07	+12 40.5	2.174	3.063	10.3	20.7
10 8	2 23.57	- 4 5.8	2.200	3.138	7.5	20.7	10 8	2 20.03	+11 24.6	2.097	3.047	7.0	20.4
10 18	2 15.16	- 4 44.9	2.177	3.140	5.6	20.6	10 18	2 13.54	+ 9 59.5	2.047	3.032	3.4	20.2
10 28	2 6.11	- 5 12.6	2.184	3.142	5.7	20.6	10 28	2 6.30	+ 8 30.7	2.026	3.017	1.5	20.0
11 7	1 57.28	- 5 25.3	2.219	3.144	7.7	20.8	11 7	1 59.14	+ 7 4.8	2.034	3.002	5.0	20.2
11 17	1 49.45	- 5 20.9	2.281	3.145	10.3	20.9	11 17	1 52.83	+ 5 48.3	2.072	2.986	8.7	20.4
11 27	1 43.26	- 4 59.3	2.367	3.145	12.8	21.1	11 27	1 48.06	+ 4 46.2	2.135	2.971	11.9	20.6
124109	2001 <i>HK</i> ₅₀		10 27.2 172°17'		4°0'/31.5 17		348770	2006 <i>JL</i> ₅₃		10 27.2 159°21'		8°9'/21.5 18	
9 18	2 35.17	+28 21.3	3.012	3.725	12.1	21.0	9 18	2 43.89	-14 45.4	2.170	2.953	14.3	21.6
9 28	2 30.10	+28 49.2	2.915	3.728	10.2	20.8	9 28	2 37.04	-15 20.5	2.107	2.958	12.1	21.5
10 8	2 23.25	+29 4.7	2.839	3.730	8.0	20.7	10 8	2 27.97	-15 44.3	2.065	2.963	10.2	21.4
10 18	2 15.04	+29 6.4	2.789	3.732	5.7	20.5	10 18	2 17.31	-15 50.8	2.050	2.968	9.0	21.3
10 28	2 6.12	+28 54.3	2.768	3.734	4.2	20.4	10 28	2 6.00	-15 34.8	2.061	2.971	9.2	21.4
11 7	1 57.27	+28 30.1	2.776	3.735	4.5	20.5	11 7	1 55.08	-14 54.5	2.101	2.975	10.7	21.5
11 17	1 49.22	+27 57.1	2.814	3.736	6.3	20.6	11 17	1 45.46	-13 51.2	2.166	2.978	12.8	21.6
11 27	1 42.61	+27 19.9	2.880	3.736	8.6	20.7	11 27	1 37.87	-12 27.9	2.255	2.981	14.8	21.8
171801	2001 <i>DE</i> ₃₉		10 27.2 338°51'		2°1'/28.3 18		212515	2006 <i>RG</i> ₃₄		10 27.2 37°26'		0°7'/26.8 18	
9 18	2 29.83	+17 38.6	1.104	1.944	21.7	19.6	9 18	2 34.46	+11 52.6	1.838	2.647	15.5	20.1
9 28	2 28.51	+17 57.1	1.026	1.931	17.6	19.3	9 28	2 30.31	+11 48.3	1.760	2.650	12.2	19.9
10 8	2 23.62	+17 57.9	0.966	1.919	12.6	19.0	10 8	2 23.77	+11 35.7	1.703	2.653	8.4	19.7
10 18	2 15.71	+17 40.2	0.925	1.908	6.9	18.6	10 18	2 15.41	+11 16.7	1.671	2.656	4.0	19.4
10 28	2 6.06	+17 6.7	0.906	1.899	2.2	18.3	10 28	2 6.15	+10 54.7	1.666	2.659	0.9	19.2
11 7	1 56.44	+16 24.3	0.911	1.890	6.6	18.6	11 7	1 57.09	+10 34.3	1.690	2.663	5.1	19.5
11 17	1 48.63	+15 42.3	0.938	1.883	12.5	18.9	11 17	1 49.25	+10 19.7	1.741	2.666	9.3	19.8
11 27	1 43.98	+15 10.3	0.985	1.877	17.8	19.2	11 27	1 43.45	+10 14.6	1.817	2.670	12.9	20.0
515191	2011 <i>UK</i> ₁₉₈		10 27.2 350°78'		2°0'/25.9 18		362587	2010 <i>VO</i> ₁₇₄		10 27.2 221°51'		1°0'/28.0 18	
9 18	2 33.68	+ 8 39.5	1.752	2.573	15.7	21.1	9 18	2 34.40	+16 17.0	2.268	3.051	13.7	20.7
9 28	2 29.82	+ 8 27.8	1.673	2.570	12.4	20.9	9 28	2 29.90	+16 27.0	2.177	3.049	11.0	20.5
10 8	2 23.50	+ 8 9.7	1.615	2.569	8.4	20.7	10 8	2 23.33	+16 27.8	2.108	3.047	7.7	20.3
10 18	2 15.28	+ 7 48.2	1.582	2.567	4.2	20.4	10 18	2 15.17	+16 19.8	2.065	3.045	4.1	20.1
10 28	2 6.11	+ 7 27.5	1.575	2.566	2.2	20.3	10 28	2 6.17	+16 4.9	2.051	3.043	1.0	19.8
11 7	1 57.12	+ 7 12.4	1.597	2.565	6.0	20.5	11 7	1 57.27	+15 46.2	2.066	3.041	4.0	20.1
11 17	1 49.35	+ 7 6.7	1.644	2.564	10.1	20.8	11 17	1 49.34	+15 27.5	2.110	3.039	7.7	20.3
11 27	1 43.68	+ 7 13.5	1.716	2.564	13.8	21.0	11 27	1 43.12	+15 12.8	2.181	3.037	10.9	20.5
32042	2000 <i>JZ</i> ₂₆		10 27.2 276°04'		2°8'/28.9 18		287968	2003 <i>UC</i> ₁₃₁		10 27.2 358°83'		5°3'/31.4 18	
9 18	2 35.99	+20 11.4	1.359	2.166	20.1	19.2	9 18	2 31.41	+27 51.0	1.597	2.369	19.0	20.2
9 28	2 32.78	+20 22.9	1.274	2.157	16.4	19.0	9 28	2 28.69	+28 5.6	1.514	2.367	16.0	19.9
10 8	2 26.23	+20 15.9	1.207	2.148	12.0	18.7	10 8	2 23.09	+27 57.6	1.450	2.366	12.4	19.7
10 18	2 16.88	+19 49.4	1.160	2.139	6.9	18.4	10 18	2 15.22	+27 24.8	1.407	2.366	8.5	19.5
10 28	2 5.96	+19 5.2	1.139	2.130	2.8	18.1	10 28	2 6.16	+26 28.3	1.388	2.366	5.6	19.3
11 7	1 55.10	+18 9.6	1.143	2.120	6.1	18.3	11 7	1 57.30	+25 13.5	1.395	2.366	6.2	19.4
11 17	1 45.88	+17 11.6	1.172	2.111	11.3	18.6	11 17	1 49.90	+23 49.4	1.428	2.367	9.7	19.6
11 27	1 39.56	+16 20.9	1.224	2.102	16.1	18.8	11 27	1 44.98	+22 26.3	1.486	2.369	13.5	19.8
408395	2013 <i>GE</i> ₁₁₁		10 27.2 97°32'		0°0'/27.3 18		238614	2005 <i>BY</i> ₁₀		10 27.2 321°58'		2°8'/25.2 18	
9 18	2 33.33	+14 30.6	2.354	3.143	13.1	21.8	9 18	2 31.42	+ 8 36.7	1.583	2.414	16.6	20.3
9 28	2 28.74	+14 17.9	2.282	3.160	10.3	21.7	9 28	2 28.39	+ 8 0.0	1.501	2.405	13.1	20.1
10 8	2 22.30	+13 56.6	2.233	3.176	7.1	21.5	10 8	2 22.73	+ 7 14.2	1.439	2.396	8.9	19.8
10 18	2 14.54	+13 28.2	2.209	3.193	3.5	21.3	10 18	2 15.00	+ 6 23.7	1.402	2.387	4.6	19.5
10 28	2 6.19	+12 55.8	2.215	3.209	0.3	21.0	10 28	2 6.18	+ 5 34.8	1.391	2.379	3.2	19.4
11 7	1 58.08	+12 23.2	2.251	3.225	4.0	21.4	11 7	1 57.50	+ 4 54.6	1.406	2.371	7.0	19.6
11 17	1 50.98	+11 54.3	2.316	3.240	7.4	21.6	11 17	1 50.10	+ 4 28.6	1.447	2.364	11.4	19.9
11 27	1 45.49	+11 32.8	2.407	3.255	10.3	21.8	11 27	1 44.93	+ 4 20.7	1.510	2.357	15.4	20.1
271926	2004 <i>XY</i> ₁₀₁		10 27.2 341°38'		7°4'/31.2 17		198470	2004 <i>XW</i> ₂₅		10 27.2 332°99'		2°2'/26.1 18	
9 18	2 35.46	+27 17.4	1.685	2.448	18.5	19.7	9 18	2 30.98	+ 8 41.6	1.286	2.132	18.8	18.9
9 28	2 32.15	+28 46.6	1.591	2.433	15.9	19.5	9 28	2 28.85	+ 8 40.4	1.201	2.112	15.0	18.6
10 8	2 25.77	+30 2.3	1.514	2.419	12.7	19.3	10 8	2 23.57	+ 8 31.5	1.134	2.093	10.4	18.2
10 18	2 16.71	+30 58.9	1.460	2.406	9.6	19.1	10 18	2 15.63	+ 8 18.3	1.088	2.075	5.2	17.9
10 28	2 5.98	+31 32.2	1.430	2.394	7.6	18.9	10 28	2 6.12	+ 8 5.6	1.067	2.058	2.5	17.7
11 7	1 55.00	+31 41.9	1.426	2.383	8.1	18.9	11 7	1 56.57	+ 7 59.4	1.070	2.043	7.3	17.9
11 17	1 45.31	+31 31.5	1.448	2.373	10.8	19.1	11 17	1 48.48	+ 8 4.9	1.097	2.029	12.7	18.2
11 27	1 38.20	+31 8.8	1.492	2.364	14.1	19.2	11 27	1 43.12	+ 8 25.8	1.145	2.016	17.5	18.4
293943	2007 <i>TK</i> ₁₆		10 27.2 24°25'		7°3'/ 2.4 18		108217	2001 <i>HN</i> ₃₁		10 27.2 27°86'		7°9'/21.9 18	
9 18	2 31.43	+32 28.2	1.488	2.245	20.8	19.9	9 18	2 35.88	- 7 7.0	1.796	2.618	15.3	19.1
9 28	2 28.95	+32 53.9	1.417	2.252	17.8	19.7	9 28	2 31.32	- 7 56.1	1.731	2.619	12.5	18.9
10 8	2 23.35	+32 52.5	1.362	2.260	14.3	19.5	10 8	2 24.37	- 8 39.5	1.688	2.620	9.8	18.8
10 18	2 15.33	+32 20.5	1.326	2.269	10.6	19.4	10 18	2 15.66	- 9 10.2	1.670	2.622	8.1	18.7
10 28	2 6.12	+31 18.2	1.314	2.279	7.8	19.2	10 28	2 6.15	- 9 21.8	1.677	2.623	8.3	18.7
11 7	1 57.25	+29 51.5	1.326	2.289	7.7	19.3	11 7	1 56.93	- 9 10.4	1.711	2.625	10.4	18.8
11 17	1 50.09	+28 10.5	1.364	2.300	10.3	19.4	11 17	1 49.01	- 8 35.6	1.769	2.626	13.1	19.0
11 27	1 45.64	+26 27.7	1.425	2.312	13.7	19.7	11 27	1 43.16	- 7 38.9	1.849	2.628	15.8	19.2
57995	2002 <i>RJ</i> ₁₀₂		10 27.2 340°38'		1°0'/27.8 18		367233	2007 <i>HH</i> ₄₁		10 2			

EPHEMERIDES

10 27.2

10 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
267817	2003 <i>UZ</i> ₁₅		10 27.2	6°60	1°0/26.3	18	323253	2003 <i>SM</i> ₂₄₄		10 27.2	33°93	3°0/24.2	18
9 18	2 27.30	+13 50.5	1.859	2.677	15.0	19.8	9 18	2 27.34	+10 18.8	1.816	2.643	15.0	20.0
9 28	2 24.67	+13 6.1	1.782	2.678	11.8	19.6	9 28	2 24.56	+8 49.0	1.754	2.657	11.6	19.9
10 8	2 19.88	+12 9.3	1.726	2.679	8.0	19.4	10 8	2 19.69	+7 8.4	1.715	2.671	7.7	19.7
10 18	2 13.49	+11 3.7	1.695	2.681	3.8	19.1	10 18	2 13.34	+5 23.6	1.702	2.686	4.1	19.5
10 28	2 6.33	+9 54.9	1.692	2.684	1.2	19.0	10 28	2 6.36	+3 42.9	1.717	2.702	3.5	19.5
11 7	1 59.37	+8 49.7	1.716	2.688	5.2	19.3	11 7	1 59.70	+2 14.4	1.760	2.718	6.7	19.7
11 17	1 53.51	+7 54.1	1.767	2.692	9.2	19.5	11 17	1 54.19	+1 4.3	1.830	2.734	10.3	20.0
11 27	1 49.47	+7 13.1	1.843	2.697	12.7	19.7	11 27	1 50.48	+0 16.1	1.923	2.751	13.4	20.2
234686	2002 <i>GJ</i> ₉₉		10 27.2	200°96	0°9/26.5	18	20372	Juliafanning		10 27.2	181°80	0°4/26.9	18
9 18	2 33.57	+13 17.9	2.048	2.848	14.5	21.5	9 18	2 36.94	+14 13.3	1.833	2.632	16.0	19.1
9 28	2 29.41	+12 42.6	1.960	2.845	11.4	21.3	9 28	2 32.31	+13 48.7	1.750	2.633	12.6	18.9
10 8	2 23.06	+11 56.4	1.894	2.842	7.8	21.1	10 8	2 25.18	+13 12.1	1.687	2.634	8.7	18.6
10 18	2 15.05	+11 2.1	1.854	2.839	3.7	20.9	10 18	2 16.14	+12 25.9	1.649	2.634	4.2	18.4
10 28	2 6.20	+10 4.1	1.842	2.835	1.1	20.7	10 28	2 6.13	+11 34.4	1.640	2.633	0.7	18.1
11 7	1 57.50	+9 8.4	1.860	2.830	5.0	20.9	11 7	1 56.31	+10 43.6	1.659	2.632	5.2	18.4
11 17	1 49.87	+8 20.4	1.906	2.825	9.0	21.2	11 17	1 47.77	+9 59.4	1.706	2.630	9.6	18.7
11 27	1 44.08	+7 44.9	1.977	2.820	12.5	21.4	11 27	1 41.36	+9 27.2	1.778	2.627	13.4	18.9
421942	2014 <i>QJ</i> ₂₅₂		10 27.2	69°70	0°2/27.1	18	127425	2002 <i>OL</i> ₁₈		10 27.2	82°60	4°6/22.2	18
9 18	2 35.84	+12 0.0	2.217	3.010	13.7	21.4	9 18	2 28.81	+1 22.9	2.348	3.169	12.2	20.1
9 28	2 30.84	+12 9.9	2.144	3.025	10.8	21.2	9 28	2 25.20	+0 8.2	2.284	3.180	9.5	19.9
10 8	2 23.82	+12 13.4	2.095	3.040	7.3	21.1	10 8	2 19.90	-1 8.6	2.244	3.191	6.8	19.8
10 18	2 15.34	+12 11.6	2.072	3.056	3.6	20.8	10 18	2 13.41	-2 21.8	2.231	3.201	4.9	19.7
10 28	2 6.18	+12 6.8	2.077	3.071	0.4	20.6	10 28	2 6.39	-3 25.7	2.247	3.212	5.1	19.7
11 7	1 57.27	+12 1.8	2.113	3.086	4.2	20.9	11 7	1 59.59	-4 15.3	2.291	3.223	7.2	19.9
11 17	1 49.44	+11 59.8	2.177	3.101	7.8	21.2	11 17	1 53.69	-4 47.5	2.362	3.233	9.7	20.1
11 27	1 43.36	+12 3.4	2.268	3.116	10.9	21.4	11 27	1 49.24	-5 1.1	2.457	3.243	12.1	20.2
166296	2002 <i>JP</i> ₃		10 27.2	113°55	0°2/27.3	18	21109	Sunkel		10 27.2	294°95	4°5/30.8	18
9 18	2 38.77	+13 52.5	2.039	2.827	14.9	20.8	9 18	2 34.94	+25 53.2	2.282	3.027	14.7	18.3
9 28	2 33.30	+13 55.3	1.967	2.844	11.8	20.7	9 28	2 30.69	+26 34.8	2.178	3.015	12.4	18.1
10 8	2 25.59	+13 49.2	1.918	2.861	8.1	20.5	10 8	2 24.13	+27 3.4	2.096	3.003	9.6	17.9
10 18	2 16.22	+13 35.6	1.894	2.877	4.0	20.2	10 18	2 15.70	+27 16.7	2.037	2.991	6.7	17.7
10 28	2 6.11	+13 17.1	1.899	2.892	0.3	20.0	10 28	2 6.18	+27 13.8	2.006	2.979	4.7	17.6
11 7	1 56.30	+12 57.4	1.934	2.908	4.5	20.3	11 7	1 56.60	+26 56.4	2.003	2.967	5.3	17.6
11 17	1 47.74	+12 40.5	1.998	2.922	8.3	20.6	11 17	1 47.97	+26 28.4	2.028	2.955	8.0	17.8
11 27	1 41.15	+12 30.4	2.087	2.936	11.7	20.8	11 27	1 41.19	+25 55.7	2.079	2.944	11.0	17.9
218176	2002 <i>TN</i> ₂		10 27.2	21°95	0°6/27.6	18	103422	Laurisiren		10 27.2	231°91	4°9/23.7	18
9 18	2 29.39	+16 35.7	0.991	1.844	22.7	19.5	9 18	2 34.56	+3 50.5	1.650	2.479	16.2	19.9
9 28	2 27.94	+16 24.4	0.942	1.854	18.0	19.2	9 28	2 30.66	+2 53.3	1.573	2.474	12.7	19.7
10 8	2 22.91	+15 52.8	0.908	1.866	12.5	19.0	10 8	2 24.18	+1 50.6	1.517	2.469	9.0	19.5
10 18	2 15.16	+15 3.8	0.894	1.880	6.3	18.7	10 18	2 15.69	+0 48.6	1.485	2.463	5.6	19.3
10 28	2 6.20	+14 4.6	0.902	1.896	0.7	18.4	10 28	2 6.20	-0 5.0	1.480	2.458	5.3	19.2
11 7	1 57.81	+13 5.3	0.934	1.913	6.6	18.9	11 7	1 56.89	-0 43.5	1.502	2.452	8.5	19.4
11 17	1 51.49	+12 15.7	0.987	1.931	12.3	19.2	11 17	1 48.88	-1 2.0	1.549	2.446	12.3	19.6
11 27	1 48.25	+11 43.3	1.061	1.950	17.1	19.6	11 27	1 43.08	-0 58.7	1.619	2.439	15.9	19.8
167379	2003 <i>WW</i> ₆₇		10 27.2	348°55	2°8/29.5	18	45997	2001 <i>BO</i> ₇₃		10 27.2	254°14	2°3/25.7	18
9 18	2 30.22	+23 8.2	1.633	2.424	17.9	19.6	9 18	2 34.24	+10 41.7	1.510	2.335	17.6	19.8
9 28	2 27.54	+22 53.8	1.549	2.421	14.6	19.4	9 28	2 30.74	+10 1.2	1.430	2.331	13.8	19.5
10 8	2 22.18	+22 18.9	1.484	2.418	10.7	19.1	10 8	2 24.41	+9 8.7	1.371	2.326	9.4	19.2
10 18	2 14.74	+21 23.6	1.441	2.416	6.4	18.9	10 18	2 15.87	+8 8.6	1.335	2.321	4.7	19.0
10 28	2 6.23	+20 11.3	1.424	2.414	2.9	18.7	10 28	2 6.18	+7 7.7	1.325	2.316	2.6	18.8
11 7	1 57.91	+18 49.0	1.435	2.412	5.1	18.8	11 7	1 56.67	+6 13.9	1.343	2.310	6.9	19.1
11 17	1 50.94	+17 25.7	1.472	2.411	9.4	19.1	11 17	1 48.60	+5 33.8	1.385	2.305	11.6	19.3
11 27	1 46.26	+16 10.5	1.533	2.410	13.5	19.3	11 27	1 42.93	+5 12.4	1.451	2.300	15.8	19.6
327591	2006 <i>DO</i> ₁₆₉		10 27.2	328°08	2°3/28.9	17	146753	2001 <i>XX</i> ₁₄₅		10 27.2	157°49	1°3/26.1	18
9 18	2 34.16	+19 25.2	2.223	2.998	14.2	20.7	9 18	2 32.27	+11 1.0	2.154	2.959	13.7	20.2
9 28	2 29.86	+19 49.7	2.131	2.995	11.5	20.5	9 28	2 28.23	+10 35.8	2.072	2.960	10.7	20.0
10 8	2 23.40	+20 3.7	2.060	2.991	8.4	20.3	10 8	2 22.17	+10 2.9	2.012	2.962	7.3	19.8
10 18	2 15.25	+20 6.6	2.014	2.988	4.9	20.1	10 18	2 14.60	+9 24.8	1.978	2.963	3.5	19.6
10 28	2 6.19	+19 59.3	1.996	2.985	2.3	19.9	10 28	2 6.29	+8 45.5	1.972	2.964	1.5	19.4
11 7	1 57.19	+19 44.5	2.008	2.982	4.2	20.1	11 7	1 58.15	+8 9.8	1.996	2.965	4.9	19.7
11 17	1 49.18	+19 25.8	2.048	2.980	7.7	20.3	11 17	1 51.02	+7 41.8	2.048	2.966	8.6	19.9
11 27	1 42.94	+19 8.2	2.114	2.977	10.9	20.5	11 27	1 45.58	+7 24.9	2.125	2.967	11.8	20.1
90601	4718 <i>P-L</i>		10 27.2	56°39	1°1/27.9	18	70806	1999 <i>VD</i> ₆₄		10 27.2	310°62	2°9/25.7	18
9 18	2 35.83	+16 53.3	1.571	2.376	17.9	20.0	9 18	2 37.10	+5 23.3	1.603	2.427	16.8	18.5
9 28	2 31.65	+16 54.2	1.510	2.394	14.2	19.8	9 28	2 33.01	+5 26.7	1.512	2.410	13.3	18.3
10 8	2 24.76	+16 41.3	1.468	2.413	9.9	19.6	10 8	2 26.06	+5 27.6	1.441	2.394	9.3	18.0
10 18	2 15.88	+16 15.8	1.451	2.433	5.1	19.4	10 18	2 16.75	+5 29.0	1.394	2.377	4.9	17.7
10 28	2 6.15	+15 41.4	1.460	2.452	1.1	19.1	10 28	2 6.10	+5 34.9	1.373	2.361	3.2	17.6
11 7	1 56.84	+15 3.7	1.496	2.472	5.0	19.5	11 7	1 55.43	+5 49.3	1.380	2.346	7.0	17.8
11 17	1 49.09	+14 28.9	1.558	2.492	9.5	19.8	11 17	1 46.03	+6 14.9	1.412	2.331	11.6	18.0
11 27	1 43.72	+14 2.6	1.645	2.512	13.3	20.1	11 27	1 39.01	+6 53.7	1.469	2.316	15.7	18.2
485803	2012 <i>DE</i> ₃₅		10 27.2	155°95	2°2/29.4	18	295171	2008 <i>FQ</i> ₈₀		10 27.2	325°62	0°6/27.7</	

EPHEMERIDES

10 27.2

10 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
331595	2001 <i>UF</i> ₂₀₈		10 27.2	35°87'	1.6°/28.3	16	305112	2007 <i>VF</i> ₇₇		10 27.2	76°01'	0.9°/26.6	18
9 18	2 33.67	+18 9.1	1.210	2.035	21.0	21.0	9 18	2 34.48	+12 19.5	1.797	2.607	15.8	21.4
9 28	2 30.75	+18 9.1	1.154	2.050	16.8	20.8	9 28	2 30.28	+12 0.6	1.728	2.619	12.4	21.2
10 8	2 24.56	+17 50.6	1.117	2.066	11.8	20.5	10 8	2 23.71	+11 32.2	1.680	2.631	8.4	21.0
10 18	2 15.92	+17 15.0	1.100	2.083	6.3	20.3	10 18	2 15.39	+10 56.8	1.657	2.643	4.1	20.8
10 28	2 6.19	+16 26.9	1.108	2.101	1.6	20.0	10 28	2 6.29	+10 19.0	1.662	2.655	1.1	20.6
11 7	1 57.00	+15 34.5	1.141	2.119	5.8	20.4	11 7	1 57.48	+9 43.9	1.695	2.667	5.2	20.9
11 17	1 49.70	+14 46.1	1.198	2.138	11.0	20.7	11 17	1 49.97	+9 16.5	1.755	2.679	9.3	21.2
11 27	1 45.26	+14 9.5	1.277	2.158	15.4	21.0	11 27	1 44.52	+9 0.7	1.839	2.690	12.9	21.4
342122	2008 <i>SC</i> ₁₀₅		10 27.2	119°65'	0.7°/26.6	18	63004	2000 <i>WA</i> ₂₃		10 27.2	34°36'	0.5°/26.8	18
9 18	2 32.95	+15 56.6	1.873	2.674	15.6	20.8	9 18	2 29.19	+15 48.9	1.978	2.783	14.7	19.2
9 28	2 28.98	+14 54.5	1.799	2.684	12.3	20.6	9 28	2 26.01	+14 56.3	1.899	2.786	11.6	19.0
10 8	2 22.75	+13 37.4	1.747	2.695	8.3	20.3	10 8	2 20.75	+13 49.9	1.841	2.790	7.9	18.8
10 18	2 14.88	+12 9.5	1.720	2.705	4.0	20.1	10 18	2 13.94	+12 33.0	1.809	2.794	3.8	18.6
10 28	2 6.29	+10 37.0	1.723	2.715	1.0	19.9	10 28	2 6.40	+11 11.3	1.805	2.798	0.7	18.3
11 7	1 58.01	+9 7.9	1.754	2.725	5.2	20.2	11 7	1 59.09	+9 51.7	1.830	2.803	4.8	18.7
11 17	1 50.98	+7 49.6	1.813	2.734	9.3	20.5	11 17	1 52.85	+8 40.8	1.883	2.807	8.8	18.9
11 27	1 45.90	+6 47.7	1.898	2.743	12.8	20.7	11 27	1 48.40	+7 44.2	1.961	2.812	12.2	19.1
450429	2005 <i>UD</i> ₁₀₅		10 27.2	341°34'	3.7°/24.9	17	10994	Foucard		10 27.3	143°68'	1.0°/26.3	18
9 18	2 30.64	+4 57.0	1.534	2.374	16.6	21.0	9 18	2 31.35	+12 13.2	2.113	2.919	13.9	17.6
9 28	2 27.90	+4 39.8	1.452	2.360	13.2	20.7	9 28	2 27.57	+11 43.2	2.031	2.920	10.9	17.4
10 8	2 22.50	+4 18.6	1.390	2.347	9.1	20.5	10 8	2 21.77	+11 4.0	1.970	2.920	7.4	17.2
10 18	2 14.96	+3 57.7	1.351	2.335	5.1	20.2	10 18	2 14.44	+10 18.4	1.935	2.920	3.6	17.0
10 28	2 6.28	+3 42.8	1.338	2.324	4.0	20.1	10 28	2 6.37	+9 30.6	1.929	2.921	1.3	16.8
11 7	1 57.67	+3 39.1	1.350	2.314	7.5	20.3	11 7	1 58.46	+8 45.8	1.951	2.921	4.9	17.1
11 17	1 50.34	+3 50.2	1.388	2.305	11.9	20.5	11 17	1 51.55	+8 8.7	2.002	2.922	8.6	17.3
11 27	1 45.27	+4 18.1	1.448	2.297	15.8	20.8	11 27	1 46.37	+7 43.1	2.077	2.922	11.9	17.5
84059	2002 <i>PV</i> ₁₀₄		10 27.2	26°18'	10.7°/ 7.9	17	330554	2008 <i>BN</i> ₁₇		10 27.3	236°24'	3.5°/30.5	17
9 18	2 36.44	+45 1.5	2.186	2.818	18.1	19.4	9 18	2 34.81	+25 21.1	2.463	3.205	13.8	21.2
9 28	2 32.61	+46 14.6	2.105	2.824	16.5	19.3	9 28	2 30.34	+25 33.9	2.355	3.192	11.5	21.0
10 8	2 25.82	+47 4.7	2.040	2.831	14.6	19.1	10 8	2 23.74	+25 32.8	2.268	3.179	8.8	20.8
10 18	2 16.63	+47 26.1	1.994	2.838	12.8	19.0	10 18	2 15.48	+25 16.6	2.206	3.166	5.8	20.6
10 28	2 6.13	+47 15.1	1.968	2.846	11.3	18.9	10 28	2 6.28	+24 45.7	2.172	3.152	3.7	20.4
11 7	1 55.76	+46 32.5	1.966	2.854	10.7	18.9	11 7	1 57.07	+24 2.9	2.168	3.137	4.5	20.5
11 17	1 46.87	+45 23.0	1.988	2.862	11.1	19.0	11 17	1 48.76	+23 12.8	2.192	3.122	7.4	20.6
11 27	1 40.53	+43 55.3	2.034	2.871	12.4	19.1	11 27	1 42.14	+22 21.5	2.244	3.107	10.4	20.8
204990	1995 <i>YP</i> ₁₄		10 27.2	286°01'	1.3°/26.2	18	183945	2004 <i>DW</i> ₃₄		10 27.3	104°74'	0.8°/27.8	16
9 18	2 31.51	+12 42.7	1.799	2.613	15.6	21.5	9 18	2 38.61	+16 46.8	1.709	2.502	17.2	20.9
9 28	2 28.30	+12 5.4	1.701	2.595	12.4	21.3	9 28	2 33.63	+16 36.3	1.643	2.521	13.6	20.7
10 8	2 22.64	+11 15.5	1.624	2.576	8.5	21.0	10 8	2 26.04	+16 12.3	1.597	2.539	9.4	20.5
10 18	2 15.01	+10 16.0	1.572	2.557	4.1	20.7	10 18	2 16.54	+15 36.4	1.575	2.557	4.8	20.2
10 28	2 6.27	+9 12.3	1.547	2.539	1.6	20.5	10 28	2 6.21	+14 52.4	1.582	2.575	0.8	20.0
11 7	1 57.54	+8 11.1	1.549	2.520	5.8	20.7	11 7	1 56.29	+14 6.1	1.616	2.592	4.9	20.3
11 17	1 49.90	+7 19.3	1.579	2.501	10.3	20.9	11 17	1 47.86	+13 23.6	1.679	2.608	9.2	20.6
11 27	1 44.29	+6 42.6	1.633	2.482	14.3	21.1	11 27	1 41.75	+12 50.7	1.766	2.624	13.0	20.9
392974	2012 <i>XK</i> ₄₀		10 27.2	169°95'	0.8°/27.9	18	66510	1999 <i>RU</i> ₉₀		10 27.3	198°37'	3.1°/29.5	18
9 18	2 33.89	+17 28.2	2.021	2.809	15.0	21.4	9 18	2 39.58	+21 21.9	2.112	2.872	15.3	18.3
9 28	2 29.73	+17 11.2	1.935	2.811	12.0	21.2	9 28	2 34.34	+21 55.4	2.017	2.870	12.6	18.1
10 8	2 23.33	+16 41.4	1.871	2.813	8.4	21.0	10 8	2 26.63	+22 17.1	1.944	2.867	9.3	17.8
10 18	2 15.23	+16 0.1	1.833	2.814	4.3	20.7	10 18	2 16.94	+22 25.3	1.896	2.864	5.8	17.6
10 28	2 6.28	+15 10.6	1.822	2.815	0.8	20.5	10 28	2 6.18	+22 20.2	1.876	2.861	3.2	17.5
11 7	1 57.51	+14 18.2	1.841	2.816	4.4	20.8	11 7	1 55.44	+22 4.0	1.885	2.857	4.8	17.6
11 17	1 49.86	+13 28.6	1.887	2.816	8.4	21.0	11 17	1 45.84	+21 41.1	1.923	2.852	8.3	17.8
11 27	1 44.12	+12 47.3	1.960	2.817	11.9	21.2	11 27	1 38.27	+21 17.2	1.988	2.848	11.7	18.0
412675	2014 <i>OB</i> ₂₀₇		10 27.2	58°75'	0.8°/28.0	15	20519	1999 <i>RH</i> ₃₆		10 27.3	19°43'	1.3°/26.5	18
9 18	2 30.04	+19 57.6	2.046	2.833	14.9	20.9	9 18	2 34.98	+9 8.1	1.802	2.617	15.6	17.9
9 28	2 26.50	+19 5.6	1.977	2.852	11.8	20.8	9 28	2 30.75	+9 17.3	1.728	2.622	12.2	17.7
10 8	2 20.94	+17 58.0	1.930	2.871	8.2	20.6	10 8	2 24.11	+9 21.3	1.676	2.627	8.3	17.5
10 18	2 13.96	+16 37.6	1.909	2.890	4.3	20.4	10 18	2 15.64	+9 22.0	1.648	2.633	4.1	17.3
10 28	2 6.39	+15 9.5	1.916	2.909	0.8	20.2	10 28	2 6.29	+9 22.2	1.648	2.640	1.4	17.1
11 7	1 59.16	+13 40.8	1.953	2.929	4.1	20.5	11 7	1 57.16	+9 25.4	1.676	2.647	5.3	17.4
11 17	1 53.06	+12 18.4	2.018	2.948	7.9	20.7	11 17	1 49.28	+9 34.6	1.731	2.655	9.4	17.6
11 27	1 48.73	+11 8.1	2.110	2.968	11.2	21.0	11 27	1 43.46	+9 52.3	1.810	2.663	13.0	17.9
180933	2005 <i>LR</i> ₃₂		10 27.2	185°69'	1.9°/25.8	17	421868	2014 <i>QA</i> ₁₅₁		10 27.3	94°65'	1.2°/28.4	18
9 18	2 35.50	+11 9.8	1.679	2.494	16.5	21.1	9 18	2 32.80	+18 5.7	2.379	3.157	13.3	21.0
9 28	2 31.38	+10 28.0	1.600	2.494	13.0	20.9	9 28	2 28.46	+18 3.2	2.300	3.169	10.6	20.8
10 8	2 24.66	+9 35.0	1.541	2.494	8.8	20.6	10 8	2 22.24	+17 50.1	2.244	3.180	7.5	20.6
10 18	2 15.94	+8 34.7	1.508	2.493	4.3	20.4	10 18	2 14.63	+17 27.2	2.213	3.191	4.0	20.4
10 28	2 6.23	+7 33.3	1.501	2.492	2.2	20.2	10 28	2 6.38	+16 56.8	2.211	3.203	1.2	20.2
11 7	1 56.74	+6 37.9	1.523	2.491	6.3	20.5	11 7	1 58.31	+16 22.7	2.238	3.214	3.7	20.4
11 17	1 48.59	+5 54.8	1.571	2.489	10.7	20.7	11 17	1 51.22	+15 49.0	2.295	3.224	7.1	20.7
11 27	1 42.66	+5 28.5	1.644	2.486	14.6	21.0	11 27	1 45.75	+15 19.9	2.378	3.235	10.1	20.9
104557	2000 <i>GH</i> ₆₈		10 27.2	310°77'	1.5°/26.2	18	394259	2006 <i>UE</i> ₄₈		10 27.3	127°98'	3.1°/30.1	

EPHEMERIDES

10 27.3

10 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
511151	2013 <i>YM</i> ₂₉	10 27.3 335°15		5°7/24.4 18			276427	2003 <i>BG</i> ₃₃	10 27.3 264°86		2°3/25.6 18		
9 18	2 31.61	+ 2 59.7	1.150	2.009	19.8	20.9	9 18	2 34.30	+ 9 42.4	1.680	2.500	16.3	21.2
9 28	2 29.57	+ 2 28.7	1.076	1.993	15.8	20.6	9 28	2 30.61	+ 9 8.0	1.590	2.487	12.9	20.9
10 8	2 24.17	+ 1 53.7	1.019	1.979	11.2	20.3	10 8	2 24.30	+ 8 23.8	1.521	2.475	8.8	20.7
10 18	2 15.98	+ 1 21.7	0.984	1.966	6.9	20.0	10 18	2 15.88	+ 7 33.5	1.476	2.462	4.5	20.4
10 28	2 6.26	+ 1 1.1	0.972	1.954	6.1	20.0	10 28	2 6.30	+ 6 42.7	1.459	2.449	2.6	20.2
11 7	1 56.62	+ 0 59.6	0.983	1.944	10.0	20.2	11 7	1 56.79	+ 5 58.4	1.469	2.435	6.6	20.5
11 17	1 48.67	+ 1 21.1	1.016	1.934	15.0	20.4	11 17	1 48.51	+ 5 26.4	1.505	2.422	11.1	20.7
11 27	1 43.63	+ 2 6.6	1.068	1.926	19.5	20.7	11 27	1 42.43	+ 5 11.1	1.564	2.408	15.1	20.9
69458	1996 <i>TQ</i> ₅₄	10 27.3		2°77 0°3/27.0 18			79860	1998 <i>XZ</i> ₈₃	10 27.3 328°41		5°3/22.8 18		
9 18	2 32.99	+15 3.8	1.308	2.137	19.6	19.1	9 18	2 26.63	+ 5 36.9	1.497	2.345	16.5	18.9
9 28	2 30.20	+14 38.7	1.236	2.137	15.6	18.9	9 28	2 24.80	+ 4 10.0	1.415	2.328	13.0	18.7
10 8	2 24.28	+13 57.0	1.182	2.136	10.7	18.6	10 8	2 20.42	+ 2 32.1	1.354	2.312	9.2	18.4
10 18	2 15.90	+13 1.5	1.151	2.137	5.3	18.3	10 18	2 13.98	+ 0 51.1	1.317	2.297	5.9	18.2
10 28	2 6.28	+11 58.5	1.144	2.137	0.7	18.0	10 28	2 6.46	+ 0 42.7	1.306	2.283	6.0	18.1
11 7	1 56.92	+10 56.7	1.162	2.138	6.3	18.4	11 7	1 59.03	+ 1 59.1	1.320	2.269	9.4	18.3
11 17	1 49.22	+10 4.5	1.206	2.139	11.6	18.7	11 17	1 52.83	+ 2 50.8	1.358	2.257	13.5	18.5
11 27	1 44.22	+ 9 29.0	1.271	2.141	16.2	19.0	11 27	1 48.80	+ 3 14.1	1.417	2.245	17.3	18.7
170397	2003 <i>TB</i> ₁₀	10 27.3 333°88		8°6/26.4 18			296598	2009 <i>RA</i> ₅₅	10 27.3 12°36		1°2/26.3 17		
9 18	2 58.26	+10 55.5	1.330	2.126	21.0	18.4	9 18	2 29.10	+12 2.6	1.714	2.538	15.9	20.8
9 28	2 50.85	+10 3.9	1.231	2.101	17.8	18.1	9 28	2 26.27	+11 36.6	1.643	2.542	12.4	20.5
10 8	2 39.11	+ 8 49.6	1.150	2.077	13.9	17.8	10 8	2 21.11	+11 0.3	1.592	2.546	8.4	20.3
10 18	2 23.55	+ 7 4.4	1.094	2.055	10.0	17.5	10 18	2 14.20	+10 17.1	1.565	2.552	4.1	20.1
10 28	2 5.64	+ 4 44.4	1.065	2.034	8.6	17.4	10 28	2 6.45	+ 9 31.9	1.565	2.558	1.4	19.9
11 7	1 47.53	+ 1 52.9	1.067	2.014	11.4	17.5	11 7	1 58.94	+ 8 50.8	1.593	2.565	5.5	20.2
11 17	1 31.41	+ 1 19.6	1.098	1.996	16.1	17.7	11 17	1 52.64	+ 8 19.0	1.646	2.572	9.6	20.5
11 27	1 18.97	+ 4 41.4	1.156	1.980	20.6	17.9	11 27	1 48.33	+ 8 0.5	1.724	2.581	13.3	20.7
25480	1999 <i>XB</i> ₆₇	10 27.3 174°52		3°1/30.3 18			496001	2007 <i>VR</i> ₁₈₃	10 27.3 308°15		1°5/28.6 17		
9 18	2 33.93	+25 29.5	2.255	3.004	14.8	19.5	9 18	2 37.83	+22 52.5	2.042	2.802	15.8	22.1
9 28	2 29.65	+25 15.7	2.163	3.007	12.2	19.3	9 28	2 33.73	+22 1.2	1.883	2.740	13.2	21.8
10 8	2 23.22	+24 44.9	2.092	3.008	9.1	19.1	10 8	2 26.83	+20 45.2	1.745	2.675	9.7	21.5
10 18	2 15.18	+23 57.0	2.045	3.010	5.8	18.9	10 18	2 17.40	+19 2.5	1.633	2.609	5.5	21.1
10 28	2 6.35	+22 54.0	2.027	3.011	3.2	18.7	10 28	2 6.17	+16 54.5	1.549	2.542	1.5	20.7
11 7	1 57.69	+21 40.7	2.038	3.011	4.3	18.8	11 7	1 54.29	+14 28.4	1.498	2.472	5.3	20.8
11 17	1 50.11	+20 23.7	2.078	3.011	7.5	19.0	11 17	1 43.11	+11 55.2	1.477	2.402	10.6	20.9
11 27	1 44.35	+19 9.9	2.146	3.010	10.7	19.2	11 27	1 33.91	+ 9 28.6	1.483	2.329	15.7	21.1
207736	2007 <i>RS</i> ₂₁₈	10 27.3 27°91		1°9/25.9 18			183997	2004 <i>EE</i> ₇₂	10 27.3 142°80		0°3/27.4 18		
9 18	2 31.49	+11 10.1	1.504	2.334	17.4	20.7	9 18	2 35.74	+15 42.1	1.611	2.418	17.5	20.4
9 28	2 28.42	+10 33.9	1.437	2.340	13.6	20.5	9 28	2 31.76	+15 26.9	1.534	2.420	13.9	20.1
10 8	2 22.71	+ 9 46.6	1.391	2.347	9.2	20.3	10 8	2 25.04	+14 57.9	1.476	2.423	9.6	19.9
10 18	2 15.00	+ 8 52.4	1.368	2.354	4.5	20.0	10 18	2 16.20	+14 16.9	1.442	2.426	4.8	19.6
10 28	2 6.37	+ 7 57.9	1.371	2.362	2.2	19.9	10 28	2 6.30	+13 28.1	1.434	2.428	0.4	19.3
11 7	1 58.05	+ 7 10.2	1.401	2.371	6.4	20.2	11 7	1 56.63	+12 38.1	1.455	2.430	5.3	19.7
11 17	1 51.17	+ 6 35.3	1.456	2.380	10.9	20.5	11 17	1 48.40	+11 53.5	1.502	2.432	10.0	20.0
11 27	1 46.57	+ 6 17.3	1.534	2.390	14.8	20.7	11 27	1 42.53	+11 20.4	1.573	2.434	14.1	20.2
328758	2009 <i>UM</i> ₈₈	10 27.3 56°77		2°7/25.4 18			454646	2014 <i>QY</i> ₂₅₃	10 27.3 316°23		4°5/23.2 18		
9 18	2 37.13	+ 3 50.2	2.304	3.107	13.0	20.0	9 18	2 30.99	+ 0 27.0	2.275	3.095	12.6	20.8
9 28	2 31.85	+ 3 53.3	2.222	3.109	10.2	19.9	9 28	2 27.09	+ 0 15.6	2.198	3.092	9.9	20.6
10 8	2 24.57	+ 3 55.6	2.163	3.110	7.0	19.7	10 8	2 21.35	+ 0 59.0	2.144	3.090	7.2	20.4
10 18	2 15.80	+ 3 59.3	2.131	3.112	3.9	19.5	10 18	2 14.24	+ 1 38.6	2.116	3.088	4.9	20.3
10 28	2 6.31	+ 4 7.4	2.128	3.114	2.9	19.4	10 28	2 6.46	+ 2 9.5	2.116	3.086	4.9	20.3
11 7	1 56.97	+ 4 22.2	2.156	3.115	5.5	19.6	11 7	1 58.84	+ 2 27.6	2.144	3.083	7.1	20.4
11 17	1 48.63	+ 4 45.4	2.212	3.117	8.7	19.8	11 17	1 52.13	+ 2 30.4	2.199	3.081	9.8	20.6
11 27	1 41.97	+ 5 18.1	2.295	3.119	11.6	20.0	11 27	1 46.97	+ 2 17.0	2.279	3.079	12.5	20.8
139945	2001 <i>RG</i> ₁₃₇	10 27.3 310°89		0°9/27.9 18			340446	2006 <i>GR</i> ₃₂	10 27.3 222°99		1°1/26.4 18		
9 18	2 33.72	+15 30.6	1.824	2.626	15.9	20.3	9 18	2 34.97	+11 42.8	1.980	2.784	14.8	21.8
9 28	2 30.07	+15 41.4	1.729	2.613	12.8	20.0	9 28	2 30.67	+11 22.0	1.890	2.777	11.7	21.6
10 8	2 23.89	+15 41.7	1.655	2.600	9.0	19.8	10 8	2 24.07	+10 52.2	1.822	2.771	8.0	21.4
10 18	2 15.67	+15 32.1	1.605	2.588	4.7	19.5	10 18	2 15.68	+10 15.8	1.779	2.764	3.9	21.1
10 28	2 6.31	+15 14.7	1.583	2.576	0.9	19.2	10 28	2 6.35	+ 9 36.9	1.765	2.757	1.3	20.9
11 7	1 56.94	+14 53.4	1.588	2.564	4.9	19.5	11 7	1 57.12	+ 9 0.4	1.779	2.750	5.2	21.2
11 17	1 48.71	+14 33.1	1.620	2.552	9.3	19.7	11 17	1 48.98	+ 8 31.3	1.822	2.742	9.3	21.4
11 27	1 42.56	+14 19.0	1.677	2.541	13.2	19.9	11 27	1 42.77	+ 8 13.6	1.889	2.734	12.9	21.6
159307	2006 <i>BY</i> ₈₉	10 27.3 147°73		0°8/26.4 18			333222	2012 <i>HU</i> ₃₉	10 27.3 188°63		1°9/25.4 17		
9 18	2 31.00	+11 52.8	2.689	3.482	11.6	21.3	9 18	2 33.42	+ 6 16.1	3.017	3.810	10.4	21.9
9 28	2 26.79	+11 26.8	2.606	3.488	9.0	21.1	9 28	2 28.50	+ 6 2.6	2.927	3.809	8.2	21.7
10 8	2 20.98	+10 54.0	2.547	3.494	6.1	20.9	10 8	2 22.07	+ 5 46.4	2.861	3.808	5.6	21.5
10 18	2 14.00	+10 16.4	2.515	3.499	2.9	20.7	10 18	2 14.53	+ 5 29.5	2.824	3.806	3.0	21.4
10 28	2 6.46	+ 9 37.4	2.512	3.505	1.0	20.6	10 28	2 6.45	+ 5 14.6	2.817	3.804	2.1	21.3
11 7	1 59.08	+ 9 0.7	2.540	3.510	4.0	20.8	11 7	1 58.46	+ 5 4.2	2.841	3.801	4.3	21.4
11 17	1 52.50	+ 8 29.6	2.598	3.514	7.0	21.0	11 17	1 51.18	+ 5 0.7	2.895	3.798	7.0	21.6
11 27	1 47.28	+ 8 7.3	2.682	3.519	9.8	21.2	11 27	1 45.14	+ 5 5.6	2.976	3.794	9.4	21.8
288097	2003 <i>WE</i> ₁₉	10 27.3 28°33		6°9/ 2.4 18			521306	2015 <i>KP</i> ₁₆₉	10 27.3 214°66		0°6/26.8 18		
9 18	2 30.93												

EPHEMERIDES

10 27.3

10 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
86510	2000 <i>DE</i> ₅₃		10 27.3 142°16'		0°6/26.8	17	264358	2000 <i>AY</i> ₁₃₃		10 27.3 315°26'		2°0/26.2	18
9 18	2 35.98	+14 12.8	1.868	2.667	15.7	20.8	9 18	2 33.52	+9 56.5	1.315	2.153	19.0	19.8
9 28	2 31.42	+13 38.8	1.793	2.677	12.4	20.6	9 28	2 30.84	+9 44.2	1.230	2.137	15.1	19.5
10 8	2 24.51	+12 52.7	1.738	2.686	8.4	20.4	10 8	2 24.98	+9 21.8	1.163	2.121	10.4	19.2
10 18	2 15.84	+11 57.6	1.709	2.694	4.1	20.2	10 18	2 16.44	+8 52.6	1.119	2.105	5.2	18.9
10 28	2 6.35	+10 58.2	1.709	2.702	0.8	20.0	10 28	2 6.35	+8 22.1	1.099	2.091	2.3	18.7
11 7	1 57.15	+10 1.0	1.737	2.709	5.1	20.3	11 7	1 56.26	+7 57.2	1.104	2.077	7.3	18.9
11 17	1 49.22	+9 11.7	1.794	2.716	9.3	20.6	11 17	1 47.67	+7 44.2	1.134	2.063	12.7	19.2
11 27	1 43.34	+8 35.3	1.875	2.722	12.9	20.8	11 27	1 41.82	+7 47.8	1.184	2.050	17.5	19.4
419236	2009 <i>VN</i> ₂₉		10 27.3 54°05'		2°6/30.2	18	221478	2006 <i>BC</i> ₂₃₄		10 27.3 340°37'		0°4/27.6	18
9 18	2 29.73	+25 4.7	2.357	3.114	14.0	20.6	9 18	2 31.25	+15 39.3	2.052	2.851	14.5	21.1
9 28	2 26.25	+24 39.2	2.266	3.115	11.5	20.4	9 28	2 27.70	+15 30.6	1.965	2.847	11.5	20.8
10 8	2 20.85	+23 57.1	2.196	3.117	8.5	20.3	10 8	2 22.02	+15 11.2	1.899	2.844	8.0	20.6
10 18	2 14.02	+22 58.9	2.151	3.119	5.3	20.1	10 18	2 14.68	+14 42.4	1.858	2.841	4.1	20.4
10 28	2 6.50	+21 47.3	2.135	3.120	2.8	19.9	10 28	2 6.51	+14 7.2	1.845	2.838	0.5	20.1
11 7	1 59.16	+20 27.4	2.147	3.122	4.0	20.0	11 7	1 58.44	+13 30.2	1.860	2.836	4.4	20.4
11 17	1 52.78	+19 5.5	2.189	3.124	7.1	20.2	11 17	1 51.41	+12 56.3	1.904	2.834	8.3	20.6
11 27	1 48.03	+17 48.2	2.259	3.126	10.2	20.4	11 27	1 46.16	+12 30.0	1.972	2.832	11.8	20.9
486519	2013 <i>GA</i> ₁₂₇		10 27.3 322°44'		3°7/24.6	18	225076	Vallemare		10 27.3 157°04'		2°9/24.1	18
9 18	2 34.71	+2 48.2	2.053	2.869	13.9	20.9	9 18	2 29.51	+6 29.9	2.525	3.335	11.7	20.5
9 28	2 30.24	+2 28.7	1.974	2.867	10.9	20.7	9 28	2 25.74	+5 30.9	2.446	3.339	9.1	20.4
10 8	2 23.64	+2 7.8	1.916	2.865	7.7	20.5	10 8	2 20.33	+4 26.7	2.391	3.342	6.2	20.2
10 18	2 15.43	+1 49.2	1.885	2.864	4.6	20.4	10 18	2 13.74	+3 21.3	2.364	3.345	3.6	20.0
10 28	2 6.42	+1 37.2	1.882	2.862	4.0	20.3	10 28	2 6.59	+2 19.6	2.366	3.347	3.2	20.0
11 7	1 57.57	+1 35.5	1.907	2.860	6.6	20.5	11 7	1 59.59	+1 26.5	2.398	3.350	5.6	20.2
11 17	1 49.79	+1 46.5	1.959	2.859	9.9	20.7	11 17	1 53.42	+0 45.8	2.458	3.352	8.4	20.4
11 27	1 43.81	+2 11.4	2.036	2.857	13.0	20.9	11 27	1 48.63	+0 19.8	2.543	3.354	11.1	20.5
408281	2013 <i>GJ</i> ₁		10 27.3 82°72'		2°3/25.4	18	412429	2014 <i>EQ</i> ₄		10 27.3 224°60'		2°9/24.8	18
9 18	2 34.77	+6 36.5	2.173	2.980	13.5	21.0	9 18	2 33.54	+7 29.4	2.070	2.881	13.9	21.9
9 28	2 30.02	+6 19.4	2.106	2.996	10.5	20.9	9 28	2 29.41	+6 41.2	1.980	2.873	10.9	21.7
10 8	2 23.30	+5 58.4	2.062	3.011	7.1	20.7	10 8	2 23.15	+5 45.8	1.914	2.865	7.5	21.4
10 18	2 15.18	+5 36.7	2.044	3.027	3.7	20.5	10 18	2 15.24	+4 47.2	1.873	2.856	4.1	21.2
10 28	2 6.45	+5 17.9	2.055	3.042	2.6	20.5	10 28	2 6.48	+3 51.2	1.861	2.846	3.2	21.1
11 7	1 58.00	+5 5.6	2.095	3.057	5.4	20.7	11 7	1 57.82	+3 3.4	1.878	2.837	6.3	21.3
11 17	1 50.62	+5 2.5	2.164	3.072	8.7	20.9	11 17	1 50.17	+2 28.7	1.923	2.826	9.9	21.5
11 27	1 44.96	+5 10.4	2.257	3.087	11.6	21.1	11 27	1 44.30	+2 10.2	1.992	2.816	13.2	21.7
210512	1998 <i>QV</i> ₅		10 27.3 16°48'		11°7/4.0	18	214784	2006 <i>UG</i> ₁₀₅		10 27.3 38°76'		1°8/26.0	18
9 18	2 33.72	+34 17.2	1.182	1.950	24.6	19.2	9 18	2 31.35	+13 56.1	1.204	2.044	20.2	20.1
9 28	2 31.89	+36 9.2	1.127	1.960	21.6	19.0	9 28	2 28.89	+12 56.3	1.147	2.055	15.8	19.8
10 8	2 26.12	+37 33.3	1.086	1.972	18.1	18.8	10 8	2 23.31	+11 38.8	1.108	2.067	10.7	19.6
10 18	2 17.07	+38 20.8	1.062	1.986	14.7	18.6	10 18	2 15.40	+10 9.5	1.092	2.079	5.1	19.3
10 28	2 6.29	+38 26.7	1.058	2.002	12.3	18.6	10 28	2 6.47	+8 38.2	1.100	2.092	2.2	19.2
11 7	1 55.84	+37 53.2	1.076	2.020	11.8	18.6	11 7	1 58.03	+7 15.9	1.133	2.105	7.2	19.5
11 17	1 47.62	+36 49.8	1.115	2.039	13.4	18.8	11 17	1 51.36	+6 11.8	1.191	2.119	12.3	19.8
11 27	1 42.95	+35 30.7	1.175	2.059	16.2	19.0	11 27	1 47.38	+5 31.3	1.270	2.134	16.7	20.2
44143	1998 <i>HF</i> ₉₈		10 27.3 91°15'		2°2/28.7	18	323248	2003 <i>SA</i> ₂₃₃		10 27.3 18°50'		4°5/23.2	18
9 18	2 38.86	+19 24.4	1.519	2.313	18.9	19.4	9 18	2 28.25	+3 55.0	1.939	2.770	14.0	20.2
9 28	2 34.32	+19 31.2	1.452	2.328	15.2	19.2	9 28	2 25.25	+2 46.4	1.871	2.774	10.9	20.1
10 8	2 26.82	+19 21.8	1.405	2.343	10.8	19.0	10 8	2 20.25	+1 33.3	1.825	2.778	7.7	19.9
10 18	2 17.07	+18 56.1	1.380	2.358	6.0	18.7	10 18	2 13.77	+0 21.6	1.806	2.783	4.9	19.7
10 28	2 6.31	+18 17.2	1.382	2.373	2.2	18.5	10 28	2 6.60	-0 42.0	1.813	2.788	4.9	19.7
11 7	1 55.94	+17 30.9	1.411	2.387	5.3	18.8	11 7	1 59.66	-1 31.3	1.849	2.794	7.5	19.9
11 17	1 47.25	+16 44.7	1.467	2.402	9.8	19.1	11 17	1 53.76	-2 2.4	1.910	2.800	10.7	20.1
11 27	1 41.17	+16 5.7	1.546	2.415	13.9	19.4	11 27	1 49.57	-2 13.4	1.994	2.807	13.6	20.3
32428	Peterlangley		10 27.3 225°08'		2°4/28.9	18	223133	2002 <i>VB</i> ₈₂		10 27.3 303°68'		1°2/28.2	18
9 18	2 36.99	+19 58.4	1.884	2.664	16.3	19.3	9 18	2 29.79	+20 46.0	1.454	2.264	18.9	20.1
9 28	2 32.59	+20 13.2	1.792	2.658	13.2	19.1	9 28	2 27.67	+20 3.4	1.362	2.249	15.3	19.8
10 8	2 25.60	+20 14.4	1.720	2.653	9.6	18.8	10 8	2 22.64	+18 56.7	1.288	2.233	10.9	19.5
10 18	2 16.53	+20 1.5	1.672	2.647	5.6	18.6	10 18	2 15.22	+17 27.1	1.236	2.218	5.9	19.2
10 28	2 6.34	+19 35.9	1.651	2.641	2.5	18.4	10 28	2 6.48	+15 40.4	1.210	2.203	1.2	18.8
11 7	1 56.20	+19 1.3	1.659	2.634	4.8	18.5	11 7	1 57.80	+13 46.7	1.210	2.188	5.7	19.1
11 17	1 47.28	+18 23.5	1.695	2.628	8.9	18.7	11 17	1 50.53	+11 58.2	1.237	2.174	11.0	19.3
11 27	1 40.52	+17 48.8	1.756	2.621	12.7	19.0	11 27	1 45.75	+10 25.9	1.286	2.160	15.8	19.6
330171	2006 <i>BW</i> ₂₁₁		10 27.3 267°71'		1°7/25.6	17	229640	2006 <i>FD</i> ₁₁		10 27.3 262°68'		0°7/26.7	17
9 18	2 30.98	+9 28.0	2.521	3.323	12.0	22.0	9 18	2 31.36	+12 20.6	2.465	3.261	12.4	21.1
9 28	2 27.11	+8 55.1	2.415	3.303	9.4	21.8	9 28	2 27.42	+12 3.3	2.366	3.249	9.8	20.9
10 8	2 21.43	+8 15.3	2.333	3.282	6.4	21.6	10 8	2 21.65	+11 38.2	2.290	3.237	6.7	20.7
10 18	2 14.36	+7 31.3	2.277	3.261	3.3	21.4	10 18	2 14.48	+11 7.3	2.241	3.226	3.3	20.4
10 28	2 6.52	+6 46.9	2.251	3.240	2.0	21.2	10 28	2 6.55	+10 33.7	2.221	3.213	0.8	20.2
11 7	1 58.67	+6 6.5	2.254	3.218	4.9	21.4	11 7	1 58.66	+10 1.3	2.230	3.201	4.2	20.4
11 17	1 51.57	+5 34.1	2.286	3.196	8.2	21.6	11 17	1 51.58	+9 33.8	2.268	3.189	7.7	20.6
11 27	1 45.88	+5 13.0	2.344	3.174	11.2	21.8	11 27	1 45.99	+9 14.8	2.333	3.177	10.8	20.8
367029	2006 <i>CC</i>		10 27.3 245°30'		3°7/31.0	17	177617	2004 <i>HR</i> ₄₈		10 27.3 238°15'		4°8/30.9	17
9 18	2 33.19	+26 45.5	2.731										

EPHEMERIDES

10 27.3

10 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
469401	2001 <i>UN</i> ₇₆	10 27.3 10°48'		2°7/25.7 18			44952	1999 <i>VB</i> ₇₁	10 27.3 60°36'		0°5/27.0 18		
9 18	2 27.87	+10 39.6	1.070	1.931	20.8	20.3	9 18	2 35.99	+15 6.3	1.289	2.114	20.0	19.1
9 28	2 26.58	+10 1.9	1.013	1.933	16.3	20.0	9 28	2 32.28	+14 35.0	1.235	2.133	15.8	18.9
10 8	2 22.00	+9 10.5	0.974	1.937	11.1	19.8	10 8	2 25.48	+13 47.7	1.201	2.153	10.7	18.6
10 18	2 14.86	+8 11.1	0.955	1.943	5.5	19.5	10 18	2 16.44	+12 48.3	1.188	2.174	5.2	18.4
10 28	2 6.53	+7 12.9	0.960	1.951	3.0	19.4	10 28	2 6.47	+11 43.6	1.201	2.194	0.7	18.1
11 7	1 58.59	+6 25.4	0.987	1.959	7.9	19.7	11 7	1 57.08	+10 42.3	1.240	2.215	6.1	18.6
11 17	1 52.47	+5 56.0	1.037	1.970	13.2	20.0	11 17	1 49.52	+9 52.2	1.304	2.235	11.1	18.9
11 27	1 49.17	+5 48.9	1.107	1.981	17.8	20.3	11 27	1 44.68	+9 19.1	1.391	2.256	15.4	19.2
227723	2006 <i>EM</i> ₈	10 27.3 180°74'		0°5/26.7 18			260684	2005 <i>JE</i> ₇₂	10 27.3 151°64'		1°2/26.4 17		
9 18	2 30.69	+12 53.8	2.860	3.648	11.1	21.9	9 18	2 36.61	+13 15.6	1.768	2.572	16.2	21.7
9 28	2 26.52	+12 29.9	2.770	3.648	8.7	21.7	9 28	2 32.10	+12 34.0	1.692	2.580	12.8	21.5
10 8	2 20.82	+11 58.8	2.704	3.649	5.9	21.5	10 8	2 25.10	+11 40.0	1.638	2.587	8.7	21.2
10 18	2 13.99	+11 22.4	2.665	3.649	2.9	21.3	10 18	2 16.23	+10 37.3	1.608	2.593	4.2	21.0
10 28	2 6.60	+10 43.8	2.656	3.649	0.7	21.2	10 28	2 6.49	+9 31.5	1.607	2.599	1.4	20.8
11 7	1 59.32	+10 6.2	2.677	3.648	3.7	21.4	11 7	1 57.03	+8 29.5	1.634	2.604	5.6	21.1
11 17	1 52.77	+9 33.2	2.728	3.647	6.7	21.6	11 17	1 48.90	+7 37.7	1.689	2.609	9.9	21.4
11 27	1 47.50	+9 7.8	2.807	3.646	9.3	21.8	11 27	1 42.93	+7 1.1	1.769	2.613	13.6	21.6
187083	2005 <i>NZ</i> ₈₂	10 27.3 97°07'		3°3/25.2 16			148526	2001 <i>QV</i>	10 27.3 66°19'		1°9/28.6 18		
9 18	2 39.35	+6 28.3	1.615	2.433	17.0	20.6	9 18	2 36.11	+19 29.0	1.467	2.269	19.1	20.2
9 28	2 34.19	+5 54.4	1.558	2.453	13.2	20.4	9 28	2 32.26	+19 25.8	1.402	2.283	15.3	20.0
10 8	2 26.42	+5 15.2	1.521	2.473	9.0	20.2	10 8	2 25.48	+19 5.2	1.355	2.297	10.9	19.7
10 18	2 16.79	+4 35.3	1.510	2.493	4.9	20.0	10 18	2 16.48	+18 27.8	1.332	2.311	6.0	19.5
10 28	2 6.40	+4 0.6	1.526	2.512	3.6	20.0	10 28	2 6.47	+17 37.6	1.334	2.326	2.0	19.3
11 7	1 56.48	+3 36.5	1.570	2.531	7.0	20.2	11 7	1 56.87	+16 41.3	1.363	2.340	5.3	19.6
11 17	1 48.12	+3 26.7	1.640	2.549	10.9	20.5	11 17	1 48.92	+15 46.9	1.418	2.355	9.9	19.9
11 27	1 42.09	+3 33.1	1.734	2.567	14.4	20.8	11 27	1 43.54	+15 1.9	1.497	2.369	14.1	20.1
415639	2014 <i>QM</i> ₃₈₀	10 27.3 305°10'		3°9/30.6 17			470567	2008 <i>GQ</i> ₆₇	10 27.3 151°57'		1°3/26.3 16		
9 18	2 33.83	+25 1.4	2.310	3.060	14.4	20.9	9 18	2 37.17	+11 43.9	1.814	2.618	15.9	22.5
9 28	2 29.72	+25 31.0	2.213	3.055	12.0	20.7	9 28	2 32.49	+11 15.9	1.737	2.625	12.5	22.3
10 8	2 23.43	+25 47.3	2.137	3.049	9.2	20.5	10 8	2 25.34	+10 38.1	1.682	2.632	8.5	22.1
10 18	2 15.42	+25 48.7	2.086	3.044	6.2	20.3	10 18	2 16.35	+9 53.5	1.653	2.638	4.1	21.9
10 28	2 6.49	+25 35.2	2.062	3.039	4.1	20.2	10 28	2 6.48	+9 7.0	1.651	2.643	1.5	21.7
11 7	1 57.57	+25 9.2	2.066	3.034	4.8	20.2	11 7	1 56.87	+8 24.2	1.678	2.648	5.6	22.0
11 17	1 49.62	+24 35.1	2.099	3.030	7.6	20.4	11 17	1 48.55	+7 50.7	1.733	2.652	9.7	22.2
11 27	1 43.45	+23 58.3	2.158	3.025	10.6	20.5	11 27	1 42.36	+7 30.3	1.812	2.656	13.4	22.5
513256	2006 <i>HH</i> ₈₀	10 27.3 163°23'		1°6/26.0 18			144311	2004 <i>DJ</i> ₁₄	10 27.3 229°71'		0°4/26.9 18		
9 18	2 38.10	+8 31.4	2.265	3.060	13.4	22.6	9 18	2 33.39	+13 26.6	2.103	2.902	14.2	20.4
9 28	2 32.68	+8 21.7	2.183	3.065	10.5	22.4	9 28	2 29.33	+13 9.7	2.013	2.897	11.2	20.2
10 8	2 25.20	+8 7.1	2.123	3.070	7.2	22.2	10 8	2 23.12	+12 43.2	1.945	2.892	7.7	20.0
10 18	2 16.19	+7 49.7	2.091	3.075	3.6	22.0	10 18	2 15.27	+12 9.1	1.903	2.888	3.8	19.8
10 28	2 6.44	+7 32.9	2.088	3.078	1.8	21.9	10 28	2 6.57	+11 30.9	1.890	2.883	0.6	19.5
11 7	1 56.87	+7 20.1	2.116	3.082	5.0	22.1	11 7	1 57.97	+10 53.4	1.905	2.878	4.6	19.8
11 17	1 48.34	+7 14.3	2.172	3.084	8.5	22.3	11 17	1 50.38	+10 21.0	1.948	2.872	8.5	20.0
11 27	1 41.55	+7 18.0	2.255	3.086	11.6	22.5	11 27	1 44.58	+9 58.3	2.017	2.867	12.0	20.2
360065	2013 <i>AA</i> ₁₀₅	10 27.3 313°24'		3°8/24.4 18			293576	2007 <i>HT</i> ₈₂	10 27.3 21°27'		3°4/23.8 18		
9 18	2 30.86	+6 18.7	1.705	2.536	15.6	20.8	9 18	2 29.11	+5 47.4	2.262	3.081	12.7	20.4
9 28	2 27.80	+5 28.9	1.622	2.526	12.3	20.6	9 28	2 25.68	+4 44.6	2.184	3.081	9.9	20.2
10 8	2 22.32	+4 31.6	1.560	2.515	8.5	20.4	10 8	2 20.44	+3 36.3	2.130	3.081	6.8	20.0
10 18	2 14.93	+3 32.1	1.522	2.505	4.9	20.1	10 18	2 13.88	+2 27.1	2.102	3.081	4.1	19.8
10 28	2 6.54	+3 27.2	1.511	2.494	4.2	20.1	10 28	2 6.68	+1 22.8	2.102	3.082	3.8	19.8
11 7	1 58.26	+1 53.7	1.527	2.485	7.5	20.2	11 7	1 59.63	+0 28.8	2.132	3.082	6.3	20.0
11 17	1 51.15	+1 27.0	1.568	2.475	11.5	20.4	11 17	1 53.49	+0 10.7	2.189	3.082	9.3	20.2
11 27	1 46.07	+1 20.1	1.632	2.466	15.1	20.7	11 27	1 48.86	+0 33.3	2.270	3.083	12.1	20.4
211222	2002 <i>PU</i> ₈₇	10 27.3 13°62'		25°1/ 2.6 17			41784	2000 <i>VD</i> ₅₆	10 27.3 147°78'		3°8/30.7 18		
9 18	2 27.20	-26 19.5	0.793	1.654	26.1	19.1	9 18	2 33.46	+26 30.0	1.822	2.585	17.3	19.4
9 28	2 27.10	-30 35.0	0.786	1.656	25.2	19.0	9 28	2 29.90	+26 19.0	1.736	2.586	14.4	19.2
10 8	2 22.79	-34 4.2	0.794	1.658	25.2	19.1	10 8	2 23.76	+25 47.1	1.669	2.587	10.8	19.0
10 18	2 15.31	-36 26.5	0.815	1.662	26.1	19.1	10 18	2 15.64	+24 53.4	1.625	2.589	7.0	18.7
10 28	2 6.54	-37 30.1	0.849	1.667	27.4	19.3	10 28	2 6.54	+23 40.3	1.607	2.590	4.0	18.6
11 7	1 58.58	-37 16.2	0.893	1.673	29.0	19.4	11 7	1 57.65	+22 14.1	1.617	2.591	5.1	18.6
11 17	1 53.04	-35 54.0	0.946	1.680	30.5	19.6	11 17	1 50.08	+20 43.2	1.655	2.592	8.7	18.9
11 27	1 50.92	-33 37.2	1.006	1.688	31.8	19.8	11 27	1 44.72	+19 16.8	1.719	2.593	12.4	19.1
133527	Fredearly	10 27.3 321°15'		1°7/28.6 17			257478	1995 <i>HJ</i> ₃	10 27.3 197°94'		1°7/26.1 17		
9 18	2 33.12	+17 59.5	2.149	2.934	14.4	19.9	9 18	2 37.10	+11 1.6	1.670	2.482	16.7	21.7
9 28	2 29.20	+18 15.9	2.055	2.926	11.6	19.7	9 28	2 32.77	+10 32.1	1.588	2.480	13.2	21.4
10 8	2 23.10	+18 21.9	1.981	2.918	8.3	19.5	10 8	2 25.75	+9 52.3	1.527	2.478	9.0	21.2
10 18	2 15.29	+18 17.6	1.933	2.911	4.6	19.3	10 18	2 16.65	+9 5.4	1.490	2.476	4.4	20.9
10 28	2 6.54	+18 4.2	1.913	2.904	1.7	19.0	10 28	2 6.46	+8 16.9	1.481	2.472	2.0	20.8
11 7	1 57.82	+17 44.9	1.921	2.897	4.2	19.2	11 7	1 56.46	+7 33.1	1.500	2.469	6.2	21.0
11 17	1 50.08	+17 23.7	1.958	2.890	7.9	19.4	11 17	1 47.80	+7 0.1	1.545	2.465	10.7	21.3
11 27	1 44.12	+17 5.5	2.020	2.884	11.3	19.6	11 27	1 41.43	+6 42.1	1.614	2.460	14.7	21.5
518696	2008 <i>YT</i> ₁₀₁	10 27.3 48°22'		5°0/22.0 18			21601	1998 <i>XO</i> ₈₉	10 27.3 286°37'		3°2/ 2.3 18		
9 18	2 28.76	-2 14.1	2.530	3.350	11.5	20.6	9 18	2 25.05	+32 20.0	4.505	5.191	8.7	17.4
9 28	2 25.13	-3 8.											

EPHEMERIDES

10 27.3

10 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
394644	2007 YF ₅₇		10 27.3	16°34'	8°4'/22.9	17	261653	2005 YB ₉₈		10 27.3	280°32'	8°3'/19.3	17
9 18	2 36.26	- 6 22.7	1.449	2.285	17.6	20.3	9 18	2 33.44	-11 33.1	2.296	3.104	12.9	21.2
9 28	2 32.19	- 6 58.6	1.392	2.289	14.4	20.1	9 28	2 29.20	-12 37.2	2.211	3.082	10.9	21.1
10 8	2 25.31	- 7 27.3	1.355	2.294	11.1	20.0	10 8	2 22.97	-13 35.3	2.149	3.060	9.2	20.9
10 18	2 16.36	- 7 41.4	1.341	2.301	8.7	19.8	10 18	2 15.20	-14 20.7	2.112	3.038	8.3	20.8
10 28	2 6.50	- 7 34.1	1.351	2.308	8.7	19.9	10 28	2 6.61	-14 47.3	2.101	3.016	8.9	20.8
11 7	1 57.05	- 7 2.3	1.386	2.315	11.1	20.0	11 7	1 58.07	-14 50.7	2.117	2.993	10.5	20.9
11 17	1 49.18	- 6 6.1	1.445	2.324	14.2	20.2	11 17	1 50.42	-14 29.4	2.156	2.970	12.7	21.0
11 27	1 43.76	- 4 48.7	1.525	2.333	17.3	20.5	11 27	1 44.40	-13 44.4	2.217	2.948	14.9	21.1
457806	2009 RT ₁₁		10 27.3	14°31'	0°2'/27.1	16	234660	2002 ET ₁₂₈		10 27.3	88°64'	3°3'/24.7	18
9 18	2 28.87	+14 22.3	1.553	2.378	17.2	20.4	9 18	2 33.80	+ 7 47.6	1.729	2.551	15.8	20.6
9 28	2 26.38	+14 5.5	1.486	2.385	13.5	20.2	9 28	2 29.80	+ 6 50.9	1.666	2.564	12.3	20.4
10 8	2 21.37	+13 36.1	1.440	2.393	9.3	20.0	10 8	2 23.45	+ 5 46.5	1.624	2.577	8.4	20.2
10 18	2 14.45	+12 56.7	1.416	2.402	4.5	19.8	10 18	2 15.40	+ 4 39.9	1.607	2.591	4.5	20.0
10 28	2 6.64	+12 12.3	1.418	2.412	0.5	19.5	10 28	2 6.60	+ 3 38.0	1.619	2.604	3.6	20.0
11 7	1 59.11	+11 29.2	1.447	2.423	5.3	19.9	11 7	1 58.16	+ 2 47.3	1.657	2.616	6.9	20.2
11 17	1 52.93	+10 53.4	1.502	2.435	9.8	20.2	11 17	1 51.02	+ 2 12.6	1.723	2.629	10.6	20.5
11 27	1 48.90	+10 29.9	1.580	2.448	13.7	20.4	11 27	1 45.93	+ 1 56.8	1.811	2.642	14.0	20.7
59170	1998 YA ₂₇		10 27.3	347°72'	0°1'/27.4	18	453175	2008 EX ₂₂		10 27.3	307°00'	4°4'/30.7	18
9 18	2 28.55	+14 34.1	1.119	1.968	20.9	18.3	9 18	2 32.04	+25 25.4	1.830	2.600	17.0	20.5
9 28	2 27.36	+14 33.7	1.046	1.957	16.7	18.0	9 28	2 29.07	+25 43.9	1.727	2.581	14.2	20.3
10 8	2 22.81	+14 17.3	0.989	1.948	11.7	17.7	10 8	2 23.45	+25 44.6	1.643	2.563	10.9	20.0
10 18	2 15.45	+13 46.9	0.954	1.940	5.9	17.4	10 18	2 15.65	+25 25.5	1.581	2.545	7.3	19.8
10 28	2 6.56	+13 7.4	0.940	1.934	0.4	17.0	10 28	2 6.57	+24 46.8	1.546	2.526	4.6	19.6
11 7	1 57.79	+12 26.7	0.950	1.929	6.6	17.4	11 7	1 57.41	+23 52.3	1.536	2.509	5.6	19.6
11 17	1 50.74	+11 53.3	0.983	1.926	12.5	17.7	11 17	1 49.40	+22 48.6	1.554	2.491	9.2	19.8
11 27	1 46.65	+11 34.6	1.036	1.924	17.6	18.0	11 27	1 43.57	+21 44.2	1.597	2.474	13.0	19.9
367415	2008 RK ₆₁		10 27.3	317°95'	3°9'/30.9	17	393006	2012 XZ ₁₃₅		10 27.3	323°19'	1°9'/28.7	18
9 18	2 31.70	+25 57.1	2.286	3.038	14.6	21.0	9 18	2 30.24	+20 0.9	1.563	2.369	17.9	20.7
9 28	2 28.06	+26 11.3	2.191	3.033	12.1	20.8	9 28	2 27.83	+19 49.7	1.472	2.356	14.6	20.4
10 8	2 22.30	+26 10.4	2.116	3.028	9.2	20.6	10 8	2 22.66	+19 20.2	1.401	2.344	10.5	20.1
10 18	2 14.89	+25 53.2	2.064	3.023	6.2	20.5	10 18	2 15.25	+18 32.6	1.352	2.332	5.9	19.9
10 28	2 6.61	+25 20.6	2.040	3.018	4.0	20.3	10 28	2 6.60	+17 30.4	1.329	2.321	1.9	19.6
11 7	1 58.39	+24 35.7	2.044	3.014	4.7	20.4	11 7	1 58.01	+16 20.6	1.332	2.310	5.2	19.8
11 17	1 51.15	+23 43.6	2.077	3.010	7.5	20.5	11 17	1 50.73	+15 11.5	1.361	2.300	10.1	20.0
11 27	1 45.66	+22 50.4	2.135	3.005	10.5	20.7	11 27	1 45.79	+14 11.9	1.414	2.290	14.4	20.3
312933	2011 WD ₈₀		10 27.3	1°38'	1°0'/26.5	18	159327	2006 CW ₂₆		10 27.3	168°01'	0°3'/27.0	18
9 18	2 31.92	+12 14.8	1.734	2.551	16.0	21.0	9 18	2 31.24	+14 1.5	2.704	3.491	11.7	21.6
9 28	2 28.58	+11 52.9	1.655	2.550	12.6	20.8	9 28	2 27.07	+13 39.4	2.616	3.493	9.2	21.4
10 8	2 22.80	+11 20.7	1.598	2.550	8.6	20.5	10 8	2 21.28	+13 9.3	2.552	3.496	6.3	21.2
10 18	2 15.17	+10 41.0	1.564	2.550	4.2	20.3	10 18	2 14.28	+12 32.9	2.514	3.498	3.1	21.0
10 28	2 6.60	+ 9 58.6	1.558	2.550	1.3	20.1	10 28	2 6.69	+11 53.2	2.507	3.500	0.4	20.8
11 7	1 58.21	+ 9 19.1	1.579	2.551	5.5	20.4	11 7	1 59.24	+11 13.8	2.529	3.501	3.7	21.1
11 17	1 51.05	+ 8 48.1	1.626	2.552	9.8	20.6	11 17	1 52.57	+10 38.6	2.581	3.503	6.8	21.3
11 27	1 45.95	+ 8 29.8	1.698	2.554	13.6	20.9	11 27	1 47.26	+10 10.8	2.660	3.504	9.6	21.5
147096	2002 TM ₁₆		10 27.3	42°20'	0°8'/27.8	18	401447	2013 CG ₁₃₇		10 27.3	309°47'	4°7'/23.4	18
9 18	2 33.99	+17 31.2	1.186	2.014	21.2	19.2	9 18	2 29.54	+ 5 2.5	1.693	2.529	15.5	20.9
9 28	2 31.08	+17 13.7	1.132	2.030	16.8	19.0	9 28	2 26.84	+ 3 52.5	1.608	2.514	12.2	20.7
10 8	2 24.88	+16 37.1	1.095	2.047	11.7	18.8	10 8	2 21.72	+ 2 34.3	1.544	2.499	8.6	20.4
10 18	2 16.23	+15 43.9	1.080	2.064	6.0	18.5	10 18	2 14.70	+ 1 14.4	1.505	2.484	5.4	20.2
10 28	2 6.53	+14 40.4	1.089	2.082	0.8	18.2	10 28	2 6.66	+ 0 1.1	1.492	2.470	5.2	20.2
11 7	1 57.38	+13 35.9	1.123	2.101	6.0	18.6	11 7	1 58.69	+ 0 57.7	1.506	2.456	8.4	20.3
11 17	1 50.15	+12 39.4	1.182	2.120	11.3	19.0	11 17	1 51.86	+ 1 36.1	1.545	2.442	12.3	20.5
11 27	1 45.78	+11 58.3	1.262	2.140	15.8	19.3	11 27	1 47.04	+ 1 50.9	1.606	2.429	15.8	20.7
467582	2007 UK ₇₄		10 27.3	96°38'	0°5'/27.7	17	480786	2016 PF ₂₈		10 27.3	67°82'	3°9'/25.2	17
9 18	2 38.36	+18 21.2	1.458	2.259	19.2	21.6	9 18	2 38.40	+ 5 18.1	1.407	2.238	18.3	20.8
9 28	2 33.85	+17 41.2	1.398	2.281	15.2	21.4	9 28	2 33.94	+ 4 52.6	1.349	2.251	14.4	20.6
10 8	2 26.42	+16 42.6	1.357	2.302	10.5	21.1	10 8	2 26.55	+ 4 22.6	1.310	2.264	9.9	20.4
10 18	2 16.88	+15 28.6	1.340	2.323	5.3	20.9	10 18	2 17.00	+ 3 53.2	1.295	2.278	5.5	20.2
10 28	2 6.49	+14 5.7	1.350	2.343	0.5	20.6	10 28	2 6.50	+ 3 30.5	1.306	2.292	4.2	20.2
11 7	1 56.65	+12 42.9	1.387	2.363	5.5	21.0	11 7	1 56.47	+ 3 20.0	1.344	2.306	7.8	20.4
11 17	1 48.55	+11 29.2	1.451	2.382	10.3	21.4	11 17	1 48.13	+ 3 25.0	1.406	2.319	12.0	20.7
11 27	1 43.05	+10 31.6	1.539	2.400	14.4	21.7	11 27	1 42.36	+ 3 47.0	1.491	2.333	15.8	21.0
38167	1999 JU ₈₈		10 27.3	26°55'	8°2'/23.0	18	279269	2009 VS ₁₁₀		10 27.3	306°90'	3°7'/24.1	18
9 18	2 32.69	+ 0 0.6	1.017	1.884	21.2	17.7	9 18	2 31.45	+ 2 56.3	2.251	3.069	12.8	20.4
9 28	2 30.31	- 1 10.4	0.973	1.893	16.8	17.5	9 28	2 27.56	+ 2 21.6	2.170	3.064	10.0	20.2
10 8	2 24.46	- 2 21.8	0.946	1.903	12.3	17.3	10 8	2 21.78	+ 1 44.5	2.111	3.060	7.0	20.0
10 18	2 16.05	- 3 22.7	0.940	1.915	8.8	17.2	10 18	2 14.58	+ 1 9.2	2.078	3.056	4.4	19.8
10 28	2 6.55	- 4 2.1	0.956	1.927	8.7	17.2	10 28	2 6.68	+ 0 40.3	2.074	3.052	4.0	19.8
11 7	1 57.66	- 4 12.6	0.994	1.941	12.0	17.5	11 7	1 58.90	+ 0 21.7	2.098	3.048	6.4	19.9
11 17	1 50.78	- 3 52.4	1.053	1.956	16.2	17.7	11 17	1 52.04	+ 0 16.5	2.150	3.044	9.5	20.1
11 27	1 46.88	- 3 3.8	1.131	1.971	19.9	18.0	11 27	1 46.75	+ 0 26.0	2.226	3.040	12.3	20.3
446488	2014 KG ₃₈		10 27.3	301°07'	8°5'/19.8	18	41376	2000 AT ₁₀₃					

EPHEMERIDES

10 27.3

10 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
237570	2001 BT ₅₇	10 27.3 246°01		4°0/30.9 18			229068	2004 GD ₇₁	10 27.3 78°09		2°3/25.9 17		
9 18	2 35.01	+27 13.3	2.265	3.005	15.0	21.3	9 18	2 38.66	+8 55.9	1.528	2.347	17.7	21.0
9 28	2 30.82	+27 13.1	2.154	2.988	12.6	21.1	9 28	2 33.85	+8 31.7	1.472	2.368	13.8	20.8
10 8	2 24.32	+26 55.5	2.062	2.970	9.7	20.9	10 8	2 26.32	+7 59.9	1.436	2.389	9.3	20.6
10 18	2 15.97	+26 19.0	1.995	2.952	6.5	20.6	10 18	2 16.84	+7 24.6	1.425	2.410	4.7	20.4
10 28	2 6.57	+25 24.2	1.955	2.933	4.1	20.5	10 28	2 6.55	+6 51.3	1.440	2.430	2.6	20.3
11 7	1 57.15	+24 15.0	1.944	2.913	4.9	20.5	11 7	1 56.76	+6 25.5	1.483	2.451	6.5	20.6
11 17	1 48.73	+22 57.5	1.962	2.893	8.0	20.6	11 17	1 48.59	+6 11.8	1.552	2.471	10.7	20.9
11 27	1 42.17	+21 39.5	2.007	2.873	11.3	20.8	11 27	1 42.84	+6 12.8	1.645	2.491	14.4	21.2
298196	2002 TA ₂₆₂	10 27.3 312°58		3°8/23.9 18			364913	2008 EL ₁₅₀	10 27.3 317°83		0°5/27.7 18		
9 18	2 27.83	+9 18.2	1.671	2.505	15.8	20.3	9 18	2 31.85	+16 16.0	1.996	2.793	14.9	21.5
9 28	2 25.56	+7 51.6	1.581	2.488	12.4	20.0	9 28	2 28.29	+16 0.9	1.908	2.790	11.9	21.3
10 8	2 20.89	+6 10.8	1.513	2.471	8.5	19.7	10 8	2 22.51	+15 33.8	1.842	2.786	8.3	21.0
10 18	2 14.31	+4 22.1	1.470	2.454	4.7	19.5	10 18	2 15.03	+14 56.2	1.801	2.783	4.2	20.8
10 28	2 6.70	+2 34.9	1.454	2.438	4.3	19.4	10 28	2 6.67	+14 11.6	1.787	2.780	0.5	20.5
11 7	1 59.16	+0 59.2	1.465	2.422	7.9	19.6	11 7	1 58.44	+13 25.0	1.802	2.778	4.5	20.8
11 17	1 52.74	-0 16.6	1.502	2.406	12.1	19.8	11 17	1 51.27	+12 41.8	1.845	2.775	8.5	21.0
11 27	1 48.33	-1 7.4	1.562	2.392	15.9	20.0	11 27	1 45.96	+12 7.3	1.913	2.772	12.1	21.3
151662	2002 YZ ₈	10 27.3 325°63		1°6/28.3 18			440868	2006 ST ₄₀₅	10 27.3 239°97		1°7/28.7 18		
9 18	2 31.35	+17 37.5	1.300	2.126	19.8	20.0	9 18	2 34.10	+19 0.9	2.049	2.831	15.1	21.9
9 28	2 29.32	+17 42.6	1.215	2.111	16.1	19.7	9 28	2 30.07	+19 2.6	1.957	2.827	12.1	21.6
10 8	2 24.06	+17 30.7	1.147	2.097	11.5	19.4	10 8	2 23.75	+18 51.5	1.887	2.823	8.7	21.4
10 18	2 16.10	+17 1.8	1.100	2.083	6.2	19.1	10 18	2 15.66	+18 28.1	1.841	2.819	4.8	21.2
10 28	2 6.57	+16 19.1	1.077	2.070	1.6	18.7	10 28	2 6.63	+17 54.4	1.823	2.815	1.7	21.0
11 7	1 57.02	+15 29.3	1.079	2.058	6.0	19.0	11 7	1 57.68	+17 14.6	1.834	2.810	4.3	21.1
11 17	1 49.02	+14 41.0	1.106	2.047	11.5	19.3	11 17	1 49.81	+16 34.0	1.873	2.806	8.2	21.4
11 27	1 43.80	+14 3.0	1.153	2.037	16.5	19.5	11 27	1 43.84	+15 58.2	1.938	2.801	11.8	21.6
233100	2005 SR ₅₆	10 27.3 346°57		4°1/24.7 18			295268	2008 GX ₆₈	10 27.3 85°50		2°3/25.6 18		
9 18	2 23.77	+9 32.6	1.039	1.910	20.5	20.4	9 18	2 34.36	+6 59.4	2.148	2.957	13.6	20.9
9 28	2 23.66	+8 33.5	0.969	1.896	16.2	20.1	9 28	2 29.86	+6 43.4	2.073	2.964	10.6	20.7
10 8	2 20.29	+7 18.0	0.917	1.884	11.1	19.8	10 8	2 23.35	+6 23.3	2.021	2.971	7.2	20.5
10 18	2 14.23	+5 53.5	0.886	1.873	5.9	19.5	10 18	2 15.35	+6 1.9	1.995	2.979	3.8	20.3
10 28	2 6.72	+4 31.3	0.876	1.865	4.6	19.4	10 28	2 6.66	+5 42.9	1.998	2.986	2.5	20.2
11 7	1 59.37	+3 23.8	0.889	1.858	9.4	19.6	11 7	1 58.18	+5 30.1	2.030	2.994	5.4	20.5
11 17	1 53.69	+2 40.8	0.923	1.853	14.8	19.9	11 17	1 50.73	+5 26.4	2.090	3.001	8.8	20.7
11 27	1 50.86	+2 27.3	0.976	1.850	19.6	20.2	11 27	1 45.02	+5 33.9	2.175	3.008	11.9	20.9
475375	2006 EY ₁	10 27.3 90°11		0°5/27.7 18			422249	2014 SC ₈₂	10 27.3 13°64		2°2/25.1 18		
9 18	2 37.50	+15 34.5	1.825	2.619	16.2	21.5	9 18	2 28.61	+9 57.4	2.128	2.944	13.5	20.9
9 28	2 32.67	+15 30.6	1.758	2.637	12.8	21.3	9 28	2 25.46	+9 2.4	2.050	2.945	10.5	20.7
10 8	2 25.42	+15 15.2	1.712	2.655	8.9	21.1	10 8	2 20.39	+7 58.7	1.994	2.947	7.1	20.5
10 18	2 16.39	+14 50.0	1.691	2.673	4.5	20.9	10 18	2 13.92	+6 50.6	1.964	2.949	3.6	20.3
10 28	2 6.57	+14 18.1	1.697	2.691	0.5	20.6	10 28	2 6.77	+5 43.5	1.963	2.951	2.5	20.2
11 7	1 57.11	+13 44.5	1.733	2.708	4.7	21.0	11 7	1 59.80	+4 43.4	1.990	2.953	5.5	20.4
11 17	1 49.01	+13 14.2	1.796	2.725	8.8	21.2	11 17	1 53.78	+3 55.2	2.045	2.955	9.0	20.6
11 27	1 43.04	+12 52.0	1.885	2.742	12.3	21.5	11 27	1 49.36	+3 22.5	2.125	2.958	12.1	20.8
140093	2001 SE ₁₂₉	10 27.3 356°98		1°4/28.3 18			522880	2016 OM ₇	10 27.3 251°69		5°4/31.8 18		
9 18	2 28.56	+17 56.8	1.433	2.255	18.5	19.1	9 18	2 34.81	+29 4.3	1.900	2.645	17.3	21.4
9 28	2 26.60	+17 52.8	1.356	2.250	14.9	18.9	9 28	2 31.11	+29 23.2	1.806	2.639	14.6	21.2
10 8	2 21.83	+17 32.3	1.298	2.247	10.5	18.6	10 8	2 24.75	+29 22.2	1.731	2.634	11.5	21.0
10 18	2 14.83	+16 56.1	1.262	2.245	5.6	18.3	10 18	2 16.25	+28 58.8	1.678	2.628	8.2	20.8
10 28	2 6.68	+16 8.4	1.251	2.244	1.4	18.0	10 28	2 6.61	+28 12.9	1.650	2.622	5.7	20.6
11 7	1 58.69	+15 15.8	1.265	2.244	5.3	18.3	11 7	1 57.03	+27 8.5	1.650	2.616	6.1	20.7
11 17	1 52.12	+14 26.1	1.305	2.245	10.2	18.6	11 17	1 48.73	+25 52.6	1.677	2.610	9.0	20.8
11 27	1 47.96	+13 46.6	1.367	2.247	14.6	18.9	11 27	1 42.67	+24 34.3	1.730	2.604	12.4	21.0
175983	2000 QN ₄₃	10 27.3 17°64		3°4/25.4 18			329018	2011 AV ₆	10 27.3 88°97		4°7/22.9 18		
9 18	2 28.00	+10 30.5	0.910	1.782	22.6	19.1	9 18	2 31.22	-0 6.1	2.295	3.114	12.5	20.8
9 28	2 27.11	+9 38.8	0.862	1.789	17.7	18.9	9 28	2 27.26	-0 55.8	2.225	3.119	9.9	20.6
10 8	2 22.58	+8 31.5	0.831	1.797	12.0	18.6	10 8	2 21.50	-1 45.9	2.179	3.123	7.2	20.5
10 18	2 15.25	+7 16.3	0.818	1.806	6.0	18.3	10 18	2 14.43	-2 31.5	2.159	3.128	5.1	20.4
10 28	2 6.66	+6 4.9	0.828	1.818	3.9	18.2	10 28	2 6.76	-3 7.7	2.167	3.133	5.1	20.4
11 7	1 58.61	+5 8.6	0.859	1.831	8.9	18.6	11 7	1 59.28	-3 30.3	2.203	3.138	7.2	20.5
11 17	1 52.65	+4 35.7	0.912	1.845	14.4	18.9	11 17	1 52.73	-3 36.9	2.266	3.142	9.8	20.7
11 27	1 49.78	+4 29.8	0.983	1.861	19.2	19.3	11 27	1 47.72	-3 26.7	2.352	3.147	12.3	20.9
153016	2000 KM ₃₆	10 27.3 151°36		0°5/26.9 18			35004	1979 MC ₃	10 27.3 116°89		0°8/26.7 18 R		
9 18	2 36.19	+14 12.6	1.918	2.715	15.4	21.5	9 18	2 35.08	+13 28.2	1.857	2.660	15.6	19.9
9 28	2 31.62	+13 44.7	1.840	2.722	12.2	21.3	9 28	2 30.78	+12 56.5	1.784	2.671	12.3	19.7
10 8	2 24.72	+13 5.3	1.783	2.729	8.3	21.1	10 8	2 24.15	+12 13.7	1.733	2.682	8.4	19.5
10 18	2 16.08	+12 17.0	1.751	2.735	4.1	20.9	10 18	2 15.80	+11 22.7	1.707	2.692	4.0	19.3
10 28	2 6.60	+11 24.3	1.748	2.741	0.7	20.6	10 28	2 6.66	+10 28.5	1.709	2.702	1.0	19.1
11 7	1 57.36	+10 32.8	1.774	2.746	4.9	21.0	11 7	1 57.81	+9 37.1	1.740	2.712	5.1	19.4
11 17	1 49.34	+9 48.2	1.827	2.751	9.1	21.2	11 17	1 50.21	+8 53.9	1.798	2.721	9.2	19.7
11 27	1 43.33	+9 15.3	1.907	2.755	12.6	21.5	11 27	1 44.63	+8 23.5	1.882	2.730	12.8	19.9
162838	2001 CC ₃₆	10 27.3 217°28		0°3/27.1 18			409797	2006 GC ₃₆	10 27.3 273°98		0°0/27.3 17		
9 18	2 35.67	+13 33.7	2.293	3.081	13.5	20.9	9 18	2 31.17	+14 44.3	2.397	3.189	12.9	22.4
9 28	2 30.98	+13 20.8	2.195	3.073	10.7	20.7	9 28	2 27.42	+14 28.5	2.296	3.175	10.2	22.2
10 8	2 24.22	+12 59.1	2.120	3.064	7.4	20.5	10 8	2 21.78	+14 3.1	2.217	3.162	7.1	21.9
10 18	2 15.85	+12 30.1	2.072	3.055	3.6	20.3	10 18	2 14.66	+13 29.9	2.164	3.148	3.5	21.7
10 28	2 6.61	+11 56.8	2.052	3.045	0.5	20.0	10 28	2 6.75	+12 51.6	2.141	3.134	0.3	21.4
11 7	1 57.43	+11 23.3	2.063	3.035	4.4	20.3	11 7	1 58.86	+12 12.4	2.146	3.120	4.0	21.7
11 17	1 49.18	+10 53.7	2.102	3.024	8.1	20.5	11 17	1 51.79	+11 36.5	2.180	3.106	7.7	21.9
11 27	1 42.63	+10 32.3	2.168	3.013	11.5	20.7	11 27	1 46.25	+11 8.3	2.241	3.09		

EPHEMERIDES

10 27.3

10 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
125940	2001 <i>XU</i> ₂₄₀	10 27.3 306°46' 1°0'/27.9 18						409780	2006 <i>EA</i> ₄₂	10 27.3 260°09' 0°7'/26.6 17				
9 18	2 33.17	+16 44.9	1.529	2.341	18.0	20.3	9 18	2 29.79	+14 29.2	2.641	3.430	11.8	21.4	
9 28	2 30.26	+16 44.3	1.436	2.325	14.5	20.0	9 28	2 26.15	+13 40.5	2.532	3.412	9.4	21.2	
10 8	2 24.45	+16 29.2	1.363	2.310	10.3	19.7	10 8	2 20.82	+12 40.9	2.447	3.393	6.4	21.0	
10 18	2 16.23	+16 0.0	1.312	2.295	5.4	19.4	10 18	2 14.18	+11 33.0	2.389	3.374	3.1	20.7	
10 28	2 6.63	+15 20.0	1.287	2.280	1.0	19.1	10 28	2 6.83	+10 20.6	2.361	3.354	0.8	20.5	
11 7	1 56.99	+14 34.8	1.288	2.266	5.5	19.4	11 7	1 59.51	+9 8.9	2.364	3.334	4.1	20.8	
11 17	1 48.67	+13 51.8	1.315	2.252	10.6	19.6	11 17	1 52.92	+8 3.1	2.396	3.314	7.5	20.9	
11 27	1 42.81	+13 18.3	1.365	2.238	15.1	19.9	11 27	1 47.68	+7 7.7	2.455	3.293	10.5	21.1	
27447	Ichunlin	10 27.3 261°24' 3°5'/29.6 18						365397	2009 <i>WP</i> ₅₄	10 27.3 60°68' 0°9'/26.6 18				
9 18	2 36.84	+22 0.8	1.642	2.426	18.2	18.3	9 18	2 32.03	+12 8.9	2.125	2.929	13.9	21.4	
9 28	2 33.00	+22 23.0	1.554	2.420	14.9	18.1	9 28	2 28.08	+11 47.4	2.055	2.942	10.9	21.2	
10 8	2 26.22	+22 29.0	1.484	2.414	11.1	17.9	10 8	2 22.16	+11 17.6	2.006	2.955	7.4	21.0	
10 18	2 17.06	+22 17.1	1.437	2.408	6.8	17.6	10 18	2 14.80	+10 42.2	1.983	2.968	3.5	20.8	
10 28	2 6.57	+21 48.1	1.416	2.402	3.6	17.4	10 28	2 6.80	+10 4.9	1.989	2.981	1.0	20.6	
11 7	1 56.14	+21 6.2	1.422	2.396	5.5	17.5	11 7	1 59.03	+9 30.4	2.023	2.995	4.6	20.9	
11 17	1 47.10	+20 18.3	1.454	2.390	9.8	17.7	11 17	1 52.31	+9 2.6	2.086	3.008	8.2	21.2	
11 27	1 40.54	+19 32.5	1.511	2.384	13.9	18.0	11 27	1 47.30	+8 45.0	2.174	3.021	11.3	21.4	
75238	1999 <i>WC</i> ₉	10 27.3 36°88' 0°7'/27.0 18						266941	2010 <i>ST</i> ₂₀	10 27.3 100°35' 0°1'/27.4 18				
9 18	2 37.55	+11 42.5	1.081	1.923	21.9	18.5	9 18	2 32.33	+15 28.6	2.093	2.889	14.3	21.2	
9 28	2 34.09	+11 51.9	1.032	1.940	17.2	18.3	9 28	2 28.48	+15 7.5	2.011	2.893	11.4	21.0	
10 8	2 27.07	+11 49.9	1.001	1.958	11.8	18.1	10 8	2 22.54	+14 35.3	1.951	2.896	7.8	20.8	
10 18	2 17.39	+11 39.1	0.990	1.977	5.7	17.8	10 18	2 15.04	+13 53.9	1.917	2.900	3.9	20.6	
10 28	2 6.57	+11 24.0	1.003	1.997	0.9	17.6	10 28	2 6.78	+13 7.0	1.911	2.904	0.3	20.3	
11 7	1 56.39	+11 11.0	1.041	2.017	6.7	18.0	11 7	1 58.69	+12 19.6	1.933	2.908	4.3	20.6	
11 17	1 48.34	+11 5.8	1.102	2.038	12.1	18.4	11 17	1 51.66	+11 36.7	1.984	2.912	8.2	20.9	
11 27	1 43.43	+11 12.8	1.184	2.060	16.7	18.7	11 27	1 46.38	+11 3.2	2.061	2.915	11.5	21.1	
339268	2004 <i>VN</i> ₉₁	10 27.3 0°52' 4°7'/24.6 18						493943	2016 <i>AB</i> ₁₁	10 27.3 294°62' 2°6'/25.1 17				
9 18	2 23.64	+7 8.0	0.988	1.865	20.8	19.3	9 18	2 30.99	+6 29.2	2.310	3.122	12.6	20.8	
9 28	2 23.55	+6 19.8	0.930	1.860	16.3	19.0	9 28	2 27.28	+6 1.3	2.216	3.109	9.9	20.6	
10 8	2 20.16	+5 20.7	0.890	1.857	11.2	18.7	10 8	2 21.68	+5 28.7	2.145	3.096	6.8	20.4	
10 18	2 14.13	+4 18.8	0.870	1.857	6.3	18.4	10 18	2 14.63	+4 54.6	2.101	3.083	3.7	20.2	
10 28	2 6.80	+3 24.7	0.871	1.858	5.2	18.4	10 28	2 6.81	+4 23.2	2.085	3.070	2.8	20.1	
11 7	1 59.78	+2 48.2	0.895	1.862	9.5	18.6	11 7	1 59.03	+3 58.7	2.097	3.058	5.6	20.3	
11 17	1 54.53	+2 36.0	0.939	1.868	14.6	18.9	11 17	1 52.09	+3 44.4	2.138	3.045	8.9	20.5	
11 27	1 52.11	+2 50.4	1.002	1.877	19.1	19.2	11 27	1 46.69	+3 43.0	2.204	3.032	11.9	20.6	
81132	2000 <i>EU</i> ₁₃₃	10 27.3 105°52' 2°5'/25.3 18						70114	1999 <i>LA</i> ₁₃	10 27.3 42°42' 6°6'/23.5 18				
9 18	2 36.33	+6 39.9	2.147	2.951	13.7	20.0	9 18	2 34.07	+3 20.1	1.076	1.935	20.8	17.9	
9 28	2 31.29	+6 15.7	2.081	2.969	10.7	19.8	9 28	2 31.13	+2 4.2	1.035	1.953	16.3	17.7	
10 8	2 24.25	+5 47.3	2.038	2.986	7.3	19.7	10 8	2 24.88	+0 44.1	1.012	1.971	11.4	17.5	
10 18	2 15.78	+5 18.0	2.021	3.003	3.9	19.5	10 18	2 16.25	+0 30.2	1.011	1.990	7.4	17.4	
10 28	2 6.70	+4 52.0	2.033	3.020	2.7	19.4	10 28	2 6.71	+0 27.8	1.033	2.010	7.1	17.4	
11 7	1 57.92	+4 33.0	2.075	3.036	5.5	19.6	11 7	1 57.84	+0 0.4	1.079	2.031	10.6	17.7	
11 17	1 50.25	+4 24.2	2.145	3.052	8.8	19.9	11 17	1 50.96	+0 5.0	1.146	2.052	14.9	18.0	
11 27	1 44.35	+4 27.4	2.241	3.067	11.8	20.1	11 27	1 46.93	+0 42.1	1.233	2.074	18.6	18.3	
168227	2006 <i>KQ</i> ₂₇	10 27.3 96°88' 0°6'/26.9 18						452070	2014 <i>OR</i> ₃₄₀	10 27.3 339°62' 0°7'/27.8 18				
9 18	2 35.65	+12 55.2	1.859	2.663	15.6	20.6	9 18	2 31.93	+15 29.1	1.834	2.640	15.7	20.8	
9 28	2 31.23	+12 38.6	1.788	2.675	12.3	20.4	9 28	2 28.64	+15 33.3	1.746	2.632	12.6	20.6	
10 8	2 24.47	+12 12.2	1.738	2.686	8.4	20.2	10 8	2 22.95	+15 26.7	1.679	2.625	8.8	20.3	
10 18	2 15.97	+11 38.5	1.713	2.698	4.1	20.0	10 18	2 15.36	+15 10.2	1.635	2.618	4.5	20.1	
10 28	2 6.68	+11 1.5	1.716	2.709	0.8	19.8	10 28	2 6.75	+14 46.5	1.619	2.612	0.7	19.8	
11 7	1 57.68	+10 26.3	1.748	2.721	5.0	20.1	11 7	1 58.22	+14 19.8	1.630	2.607	4.7	20.0	
11 17	1 49.93	+9 57.8	1.807	2.732	9.1	20.4	11 17	1 50.80	+13 55.1	1.668	2.602	9.0	20.3	
11 27	1 44.21	+9 40.0	1.891	2.743	12.6	20.6	11 27	1 45.39	+13 37.5	1.731	2.597	12.8	20.5	
208161	2000 <i>HN</i> ₈₃	10 27.3 156°75' 6°7'/20.6 18						275555	1999 <i>NC</i> ₅₄	10 27.3 65°23' 2°5'/29.5 18				
9 18	2 34.54	-8 24.0	2.533	3.337	11.9	20.8	9 18	2 36.14	+23 19.9	1.580	2.363	18.8	19.6	
9 28	2 29.62	-9 27.8	2.471	3.344	9.8	20.6	9 28	2 31.93	+22 52.6	1.524	2.391	15.1	19.4	
10 8	2 22.99	-10 26.8	2.433	3.352	7.9	20.5	10 8	2 25.03	+22 4.5	1.488	2.420	10.9	19.3	
10 18	2 15.15	-11 15.5	2.421	3.359	6.8	20.5	10 18	2 16.23	+20 57.3	1.474	2.449	6.3	19.1	
10 28	2 6.76	-11 48.9	2.437	3.365	7.1	20.5	10 28	2 6.72	+19 36.0	1.488	2.477	2.6	18.9	
11 7	1 58.61	-12 3.5	2.482	3.370	8.7	20.6	11 7	1 57.77	+18 8.8	1.529	2.506	4.9	19.1	
11 17	1 51.37	-11 58.3	2.552	3.375	10.7	20.8	11 17	1 50.47	+16 44.8	1.597	2.534	9.0	19.4	
11 27	1 45.62	-11 33.7	2.644	3.379	12.6	20.9	11 27	1 45.55	+15 31.9	1.691	2.562	12.8	19.7	
408706	2014 <i>NT</i> ₃₃	10 27.3 357°39' 5°8'/22.6 18						210353	2007 <i>US</i> ₁₈	10 27.3 292°87' 0°6'/27.8 18				
9 18	2 29.80	+0 16.4	1.806	2.641	14.7	20.4	9 18	2 33.76	+15 45.7	1.789	2.592	16.1	21.6	
9 28	2 26.73	+0 45.3	1.736	2.639	11.7	20.2	9 28	2 30.24	+15 43.0	1.694	2.578	13.0	21.4	
10 8	2 21.46	+1 48.5	1.688	2.637	8.5	20.0	10 8	2 24.17	+15 28.3	1.619	2.564	9.1	21.1	
10 18	2 14.53	+2 46.8	1.665	2.636	6.1	19.9	10 18	2 16.03	+15 2.5	1.568	2.550	4.7	20.8	
10 28	2 6.80	+3 33.3	1.669	2.636	6.2	19.9	10 28	2 6.72	+14 28.6	1.543	2.537	0.6	20.5	
11 7	1 59.28	-4 2.1	1.698	2.636	8.7	20.0	11 7	1 57.40	+13 51.4	1.547	2.523	5.0	20.8	
11 17	1 52.87	-4 10.2	1.753	2.637	11.9	20.2	11 17	1 49.23	+13 16.7	1.578	2.510	9.5	21.0	
11 27	1 48.33	-3 56.6	1.830	2.638	14.8	20.4	11 27	1 43.17	+12 50.3	1.633	2.497	13.6	21.2	
23673	Neilmehta	10 27.3 306°99' 2°0'/26.1 18						48108	2001 <i>FG</i> ₇₁	10 27.3 37°41' 5°9'/23.8 18				
9 18	2 33.16	+9 37.6	1.591	2.417	16.8	18.6	9 18	2 33.04	+4 17.0	1.172	2.026	19.8	17.9	
9 28	2 30.14	+9 20.9	1.492	2.393	13.4	18.3	9 28	2 30.21	+3 8.8	1.123</				

EPHEMERIDES

10 27.3

10 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
165957	2001 <i>XT</i> ₈₇		10 27.3 356°99		0°2/27.2	17	263168	2007 <i>VW</i> ₃₁₃		10 27.4 235°36		2°3/25.8	18
9 18	2 35.52	+11 41.6	1.051	1.899	22.0	19.4	9 18	2 36.09	+10 13.2	1.612	2.430	17.0	21.7
9 28	2 33.10	+12 5.9	0.984	1.895	17.6	19.1	9 28	2 32.20	+9 36.6	1.527	2.423	13.4	21.4
10 8	2 26.91	+12 20.1	0.934	1.893	12.2	18.8	10 8	2 25.55	+8 49.2	1.462	2.415	9.2	21.2
10 18	2 17.61	+12 25.4	0.904	1.891	6.1	18.4	10 18	2 16.73	+7 55.0	1.421	2.407	4.6	20.9
10 28	2 6.62	+12 25.1	0.897	1.890	0.5	18.1	10 28	2 6.73	+7 0.0	1.408	2.398	2.5	20.7
11 7	1 55.84	+12 24.5	0.913	1.891	7.0	18.5	11 7	1 56.84	+6 11.5	1.421	2.389	6.7	21.0
11 17	1 47.06	+12 29.2	0.952	1.893	13.0	18.8	11 17	1 48.28	+5 35.7	1.461	2.380	11.3	21.2
11 27	1 41.61	+12 44.6	1.011	1.895	18.2	19.2	11 27	1 42.04	+5 17.2	1.525	2.370	15.4	21.4
47690	2000 <i>CQ</i> ₉₂		10 27.3 241°55		1°2/28.5	17	116741	2004 <i>DR</i> ₄₅		10 27.4 167°36		0°7/27.8	18
9 18	2 32.08	+18 19.6	2.672	3.444	12.2	19.6	9 18	2 38.64	+15 36.6	1.789	2.582	16.5	20.4
9 28	2 27.95	+18 16.4	2.570	3.434	9.8	19.4	9 28	2 33.91	+15 38.0	1.707	2.585	13.2	20.2
10 8	2 22.06	+18 3.4	2.490	3.424	7.0	19.2	10 8	2 26.54	+15 28.0	1.645	2.588	9.2	20.0
10 18	2 14.81	+17 41.1	2.437	3.414	3.8	19.0	10 18	2 17.15	+15 7.4	1.608	2.590	4.7	19.7
10 28	2 6.83	+17 11.3	2.412	3.404	1.2	18.7	10 28	2 6.71	+14 39.0	1.598	2.592	0.7	19.4
11 7	1 58.88	+16 37.3	2.418	3.393	3.5	18.9	11 7	1 56.44	+14 7.5	1.618	2.593	4.9	19.7
11 17	1 51.69	+16 2.7	2.453	3.382	6.7	19.1	11 17	1 47.49	+13 38.4	1.664	2.594	9.3	20.0
11 27	1 45.92	+15 31.8	2.515	3.371	9.7	19.3	11 27	1 40.78	+13 16.9	1.736	2.594	13.2	20.2
478455	2012 <i>NV</i> ₁		10 27.3 45°39		10°6/ 3.5	18	191911	2005 <i>GG</i> ₄₁		10 27.4 358°75		5°9/21.6	18
9 18	2 41.58	+34 56.7	1.415	2.148	22.7	20.5	9 18	2 28.29	- 0 48.5	2.027	2.859	13.5	19.9
9 28	2 37.66	+36 34.2	1.352	2.162	19.9	20.3	9 28	2 25.31	- 2 6.1	1.957	2.857	10.7	19.7
10 8	2 29.93	+37 46.7	1.305	2.177	16.6	20.2	10 8	2 20.37	- 3 25.0	1.911	2.856	7.9	19.5
10 18	2 19.05	+38 26.3	1.277	2.193	13.4	20.0	10 18	2 13.99	- 4 38.5	1.891	2.856	6.1	19.4
10 28	2 6.52	+38 28.2	1.270	2.209	11.1	19.9	10 28	2 6.93	- 5 39.6	1.897	2.856	6.4	19.5
11 7	1 54.29	+37 54.2	1.287	2.226	10.8	20.0	11 7	2 0.04	- 6 22.8	1.931	2.856	8.7	19.6
11 17	1 44.16	+36 52.7	1.328	2.243	12.4	20.1	11 17	1 54.13	- 6 44.6	1.989	2.857	11.4	19.8
11 27	1 37.44	+35 36.7	1.390	2.260	15.1	20.3	11 27	1 49.85	- 6 44.4	2.070	2.858	14.0	20.0
285560	2000 <i>KO</i> ₅₇		10 27.3 102°85		1°0/28.3	18	298867	2004 <i>RH</i> ₃₂₈		10 27.4 336°99		3°2/30.7	18
9 18	2 32.85	+18 57.5	2.065	2.849	14.9	21.1	9 18	2 28.95	+24 55.3	2.659	3.410	12.7	19.9
9 28	2 28.89	+18 29.4	1.988	2.860	11.9	20.9	9 28	2 25.64	+25 6.6	2.559	3.402	10.5	19.8
10 8	2 22.80	+17 47.2	1.932	2.871	8.3	20.7	10 8	2 20.55	+25 5.3	2.480	3.394	8.0	19.6
10 18	2 15.17	+16 52.7	1.901	2.881	4.4	20.5	10 18	2 14.10	+24 50.8	2.426	3.387	5.3	19.4
10 28	2 6.81	+15 49.8	1.899	2.892	1.0	20.2	10 28	2 6.92	+24 24.0	2.400	3.379	3.3	19.3
11 7	1 58.71	+14 44.1	1.926	2.902	4.2	20.5	11 7	1 59.77	+23 47.6	2.402	3.373	4.0	19.3
11 17	1 51.73	+13 41.9	1.981	2.912	8.0	20.8	11 17	1 53.40	+23 5.4	2.433	3.366	6.5	19.5
11 27	1 46.57	+12 48.7	2.063	2.922	11.3	21.0	11 27	1 48.46	+22 22.4	2.491	3.360	9.3	19.6
64948	2001 <i>YH</i> ₁₂₄		10 27.3 81°50		0°1/27.3	18	330751	2008 <i>SV</i> ₁₄₅		10 27.4 183°66		1°9/29.5	18
9 18	2 40.48	+13 14.3	1.320	2.139	20.0	18.4	9 18	2 30.45	+22 25.2	2.726	3.484	12.3	20.6
9 28	2 36.07	+13 21.5	1.255	2.149	15.8	18.1	9 28	2 26.61	+22 6.8	2.631	3.484	10.0	20.5
10 8	2 28.36	+13 17.1	1.209	2.159	10.9	17.9	10 8	2 21.08	+21 35.7	2.559	3.484	7.3	20.3
10 18	2 18.09	+13 2.6	1.184	2.169	5.4	17.6	10 18	2 14.30	+20 52.5	2.512	3.483	4.3	20.1
10 28	2 6.61	+12 41.8	1.186	2.179	0.4	17.2	10 28	2 6.91	+19 59.5	2.494	3.483	2.0	19.9
11 7	1 55.51	+12 20.3	1.213	2.189	6.1	17.7	11 7	1 59.63	+19 0.5	2.507	3.482	3.4	20.0
11 17	1 46.26	+12 4.2	1.267	2.199	11.3	18.0	11 17	1 53.16	+18 0.1	2.549	3.481	6.4	20.2
11 27	1 39.90	+11 58.8	1.342	2.209	15.8	18.3	11 27	1 48.08	+17 3.4	2.619	3.480	9.2	20.4
488081	2015 <i>VN</i> ₂₉		10 27.4 312°30		4°1/31.2	18	434022	2001 <i>SK</i> ₈		10 27.4 51°12		1°9/25.9	18
9 18	2 30.75	+27 16.5	2.017	2.773	16.1	21.1	9 18	2 32.47	+13 1.3	1.412	2.241	18.4	21.1
9 28	2 27.70	+27 11.8	1.920	2.764	13.4	20.9	9 28	2 29.42	+12 3.8	1.349	2.251	14.4	20.9
10 8	2 22.29	+26 47.7	1.842	2.756	10.3	20.7	10 8	2 23.59	+10 51.6	1.306	2.262	9.7	20.7
10 18	2 15.05	+26 3.1	1.788	2.748	6.9	20.5	10 18	2 15.68	+9 29.8	1.287	2.273	4.7	20.4
10 28	2 6.83	+24 59.5	1.760	2.740	4.3	20.3	10 28	2 6.84	+8 6.9	1.293	2.284	2.2	20.3
11 7	1 58.70	+23 41.9	1.760	2.732	5.0	20.3	11 7	1 58.39	+6 52.0	1.326	2.296	6.7	20.6
11 17	1 51.68	+22 17.4	1.788	2.724	8.2	20.5	11 17	1 51.49	+5 52.9	1.384	2.308	11.3	20.9
11 27	1 46.62	+20 54.4	1.841	2.717	11.7	20.7	11 27	1 47.00	+5 14.6	1.465	2.320	15.4	21.2
242017	2002 <i>PF</i> ₁₈₅		10 27.4 195°85		3°3/30.7	17	183889	2004 <i>CY</i> ₇₂		10 27.4 120°74		2°3/28.9	18
9 18	2 32.30	+25 28.1	2.542	3.287	13.4	20.8	9 18	2 38.75	+19 28.5	1.631	2.419	18.0	20.2
9 28	2 28.28	+25 35.3	2.447	3.286	11.1	20.6	9 28	2 34.29	+19 41.7	1.554	2.426	14.6	20.0
10 8	2 22.36	+25 28.7	2.374	3.285	8.4	20.4	10 8	2 26.96	+19 39.9	1.497	2.433	10.5	19.8
10 18	2 14.97	+25 7.7	2.325	3.284	5.6	20.3	10 18	2 17.40	+19 22.7	1.463	2.440	6.0	19.5
10 28	2 6.84	+24 33.1	2.304	3.283	3.5	20.1	10 28	2 6.72	+18 52.1	1.456	2.446	2.4	19.3
11 7	1 58.80	+23 48.3	2.312	3.282	4.2	20.2	11 7	1 56.28	+18 13.2	1.476	2.453	5.1	19.5
11 17	1 51.64	+22 57.7	2.349	3.281	6.8	20.3	11 17	1 47.34	+17 32.5	1.524	2.459	9.5	19.8
11 27	1 46.07	+22 6.7	2.413	3.279	9.6	20.5	11 27	1 40.87	+16 57.0	1.596	2.464	13.6	20.1
275947	2001 <i>UH</i> ₁₈₃		10 27.4 23°86		5°0/24.2	18	384371	2009 <i>UM</i> ₁₃₆		10 27.4 10°00		2°4/28.6	18
9 18	2 32.54	+ 4 56.1	1.292	2.139	18.7	19.8	9 18	2 30.54	+17 43.3	1.038	1.883	22.5	20.6
9 28	2 29.70	+ 4 1.8	1.233	2.145	14.7	19.5	9 28	2 29.13	+18 10.0	0.979	1.885	18.1	20.4
10 8	2 23.90	+ 3 1.3	1.193	2.151	10.2	19.3	10 8	2 24.12	+18 18.3	0.936	1.889	13.0	20.1
10 18	2 15.86	+ 2 1.6	1.176	2.158	6.1	19.1	10 18	2 16.19	+18 8.2	0.912	1.894	7.2	19.8
10 28	2 6.79	+ 1 11.7	1.183	2.165	5.4	19.1	10 28	2 6.80	+17 42.5	0.910	1.902	2.4	19.6
11 7	1 58.10	+ 0 39.2	1.216	2.173	9.0	19.3	11 7	1 57.76	+17 8.3	0.931	1.911	6.4	19.8
11 17	1 51.04	+ 0 28.5	1.272	2.182	13.3	19.6	11 17	1 50.70	+16 34.3	0.974	1.921	11.9	20.2
11 27	1 46.53	+ 0 41.1	1.348	2.191	17.1	19.9	11 27	1 46.79	+16 9.2	1.038	1.933	16.9	20.5
292651	2006 <i>UP</i> ₅₁		10 27.4 53°14		2°5/29.4	18	209217	2003 <i>WB</i> ₃₇		10 27.4 347°86			

EPHEMERIDES

10 27.4

10 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
91953	1999 VS ₇₁	10 27.4 123°23			0°1/27.3 18			395389	2011 SK ₇₀	10 27.4 340°67			3°0/29.4 18	
9 18	2 31.15	+15 10.3	2.267	3.061	13.4	20.1	9 18	2 32.87	+20 49.1	1.597	2.394	18.0	21.0	
9 28	2 27.42	+14 45.7	2.182	3.062	10.6	19.9	9 28	2 29.93	+21 8.5	1.511	2.387	14.7	20.8	
10 8	2 21.78	+14 10.6	2.118	3.063	7.3	19.7	10 8	2 24.18	+21 12.2	1.444	2.381	10.8	20.6	
10 18	2 14.70	+13 27.1	2.081	3.065	3.6	19.5	10 18	2 16.14	+20 59.1	1.400	2.375	6.5	20.3	
10 28	2 6.91	+12 38.9	2.072	3.066	0.3	19.2	10 28	2 6.86	+20 30.5	1.381	2.370	3.1	20.1	
11 7	1 59.26	+11 50.5	2.093	3.067	4.1	19.5	11 7	1 57.64	+19 51.1	1.388	2.365	5.3	20.2	
11 17	1 52.55	+11 6.8	2.142	3.068	7.7	19.7	11 17	1 49.76	+19 7.6	1.422	2.361	9.7	20.5	
11 27	1 47.45	+10 32.0	2.217	3.069	10.9	19.9	11 27	1 44.27	+18 27.6	1.479	2.358	13.8	20.7	
397263	2006 RG ₁₇	10 27.4 36°17			3°8/24.6 15			452727	2006 AR ₃₇	10 27.4 287°90			8°6/18.7 18	
9 18	2 31.53	+ 6 50.0	1.533	2.369	16.8	20.6	9 18	2 31.16	-11 27.0	2.212	3.027	13.1	21.1	
9 28	2 28.38	+ 5 56.6	1.475	2.382	13.1	20.4	9 28	2 27.43	-12 46.6	2.147	3.021	11.0	20.9	
10 8	2 22.71	+ 4 56.3	1.439	2.395	9.0	20.2	10 8	2 21.79	-13 59.7	2.104	3.015	9.3	20.8	
10 18	2 15.20	+ 3 55.0	1.426	2.409	5.0	20.0	10 18	2 14.73	-14 59.3	2.086	3.009	8.6	20.8	
10 28	2 6.90	+ 3 0.1	1.439	2.423	4.1	20.0	10 28	2 6.98	-15 38.8	2.094	3.003	9.2	20.8	
11 7	1 58.97	+ 2 18.3	1.478	2.438	7.5	20.2	11 7	1 59.39	-15 54.1	2.127	2.998	10.8	20.9	
11 17	1 52.44	+ 1 54.3	1.543	2.453	11.4	20.5	11 17	1 52.76	-15 44.1	2.184	2.992	12.8	21.0	
11 27	1 48.08	+ 1 50.1	1.630	2.469	14.9	20.8	11 27	1 47.74	-15 9.8	2.261	2.986	14.8	21.2	
464382	2016 AC ₁₈₇	10 27.4 320°34			7°2/ 2.7 16			450736	2007 GA ₄₈	10 27.4 219°94			2°3/25.3 17	
9 18	2 32.88	+33 49.2	2.161	2.873	16.4	20.7	9 18	2 35.00	+ 5 21.4	2.668	3.465	11.5	21.5	
9 28	2 29.58	+34 35.1	2.058	2.859	14.3	20.6	9 28	2 30.11	+ 5 9.5	2.574	3.458	9.1	21.4	
10 8	2 23.77	+35 2.9	1.973	2.845	11.8	20.4	10 8	2 23.48	+ 4 55.0	2.505	3.451	6.2	21.2	
10 18	2 15.91	+35 8.6	1.911	2.832	9.3	20.2	10 18	2 15.54	+ 4 40.5	2.463	3.444	3.4	21.0	
10 28	2 6.84	+34 50.2	1.872	2.819	7.5	20.1	10 28	2 6.92	+ 4 28.9	2.450	3.436	2.5	20.9	
11 7	1 57.70	+34 9.4	1.860	2.807	7.4	20.0	11 7	1 58.37	+ 4 23.0	2.469	3.428	4.9	21.1	
11 17	1 49.63	+33 10.8	1.875	2.795	9.1	20.1	11 17	1 50.60	+ 4 25.2	2.516	3.419	7.9	21.2	
11 27	1 43.62	+32 2.2	1.915	2.783	11.6	20.2	11 27	1 44.23	+ 4 37.2	2.590	3.411	10.6	21.4	
232292	2002 RD ₁₉₂	10 27.4 150°22			3°2/23.8 18			260429	2004 XR ₁₀₄	10 27.4 228°84			7°6/17.9 18	
9 18	2 29.85	+ 4 15.0	2.631	3.442	11.3	20.4	9 18	2 33.95	-17 26.3	3.139	3.916	10.4	21.1	
9 28	2 26.01	+ 3 23.7	2.554	3.446	8.8	20.2	9 28	2 29.01	-18 21.2	3.065	3.904	9.1	21.0	
10 8	2 20.61	+ 2 29.1	2.502	3.450	6.1	20.1	10 8	2 22.58	-19 7.9	3.015	3.891	8.0	20.9	
10 18	2 14.06	+ 1 35.1	2.476	3.453	3.8	19.9	10 18	2 15.04	-19 41.5	2.990	3.877	7.6	20.9	
10 28	2 6.98	+ 0 46.2	2.480	3.457	3.5	19.9	10 28	2 6.96	-19 57.7	2.992	3.863	8.1	20.9	
11 7	2 0.04	+ 0 6.5	2.513	3.460	5.7	20.1	11 7	1 58.99	-19 54.3	3.021	3.849	9.2	20.9	
11 17	1 53.89	- 0 20.9	2.574	3.463	8.3	20.2	11 17	1 51.74	-19 30.5	3.074	3.834	10.6	21.0	
11 27	1 49.06	- 0 34.1	2.660	3.466	10.8	20.4	11 27	1 45.73	-18 47.5	3.149	3.818	12.0	21.1	
36953	2000 SO ₂₆₇	10 27.4 313°51			1°7/25.9 18			20042	1993 CK ₁	10 27.4 213°99			0°4/27.7 18	
9 18	2 31.74	+10 6.0	2.034	2.846	14.1	19.6	9 18	2 37.20	+14 53.7	2.086	2.873	14.7	18.7	
9 28	2 28.12	+ 9 36.1	1.950	2.843	11.1	19.4	9 28	2 32.49	+14 55.9	1.993	2.868	11.7	18.5	
10 8	2 22.39	+ 8 58.3	1.888	2.839	7.6	19.2	10 8	2 25.47	+14 48.7	1.921	2.863	8.2	18.3	
10 18	2 15.05	+ 8 15.7	1.851	2.836	3.8	19.0	10 18	2 16.65	+14 32.8	1.875	2.857	4.2	18.0	
10 28	2 6.91	+ 7 32.9	1.843	2.833	2.0	18.8	10 28	2 6.85	+14 10.7	1.857	2.851	0.5	17.7	
11 7	1 58.89	+ 6 54.9	1.863	2.830	5.3	19.0	11 7	1 57.12	+13 46.1	1.869	2.844	4.4	18.0	
11 17	1 51.89	+ 6 26.3	1.910	2.827	9.1	19.3	11 17	1 48.44	+13 23.5	1.910	2.837	8.5	18.3	
11 27	1 46.65	+ 6 10.6	1.982	2.825	12.5	19.5	11 27	1 41.66	+13 7.1	1.976	2.830	12.0	18.5	
112094	2002 JB ₃₂	10 27.4 82°90			1°1/26.5 18			301710	2010 GU ₃₂	10 27.4 113°38			2°3/25.2 18	
9 18	2 34.26	+12 23.0	1.752	2.564	16.1	19.9	9 18	2 34.37	+ 9 16.0	2.158	2.963	13.7	21.7	
9 28	2 30.35	+11 54.7	1.680	2.572	12.6	19.7	9 28	2 29.79	+ 8 22.6	2.093	2.982	10.6	21.5	
10 8	2 24.01	+11 15.7	1.629	2.580	8.6	19.5	10 8	2 23.28	+ 7 22.0	2.050	3.000	7.2	21.4	
10 18	2 15.86	+10 29.4	1.602	2.588	4.2	19.3	10 18	2 15.40	+ 6 18.3	2.034	3.018	3.7	21.2	
10 28	2 6.86	+ 9 40.8	1.603	2.595	1.3	19.1	10 28	2 6.95	+ 5 17.0	2.048	3.035	2.6	21.1	
11 7	1 58.13	+ 8 55.8	1.632	2.603	5.4	19.4	11 7	1 58.79	+ 4 23.4	2.091	3.052	5.5	21.4	
11 17	1 50.67	+ 8 19.9	1.688	2.611	9.7	19.7	11 17	1 51.72	+ 3 41.8	2.162	3.068	8.8	21.6	
11 27	1 45.30	+ 7 57.4	1.768	2.619	13.3	19.9	11 27	1 46.36	+ 3 15.2	2.259	3.084	11.8	21.8	
327657	2006 QV ₆₁	10 27.4 3°55			4°1/24.5 18			181347	2006 RU ₂₂	10 27.4 333°16			7°0/31.8 18	
9 18	2 21.26	+12 19.7	0.903	1.782	22.1	19.1	9 18	2 36.13	+28 29.3	1.708	2.463	18.6	19.9	
9 28	2 21.97	+10 47.1	0.848	1.780	17.3	18.8	9 28	2 32.73	+29 36.6	1.617	2.453	15.9	19.7	
10 8	2 19.23	+ 8 51.0	0.810	1.779	11.7	18.5	10 8	2 26.30	+30 27.2	1.543	2.444	12.7	19.4	
10 18	2 13.78	+ 6 42.0	0.792	1.781	6.0	18.2	10 18	2 17.32	+30 56.3	1.491	2.436	9.5	19.2	
10 28	2 7.01	+ 4 35.9	0.796	1.784	4.7	18.2	10 28	2 6.80	+31 1.1	1.463	2.428	7.2	19.1	
11 7	2 0.62	+ 2 49.5	0.821	1.790	9.8	18.5	11 7	1 56.17	+30 42.7	1.461	2.420	7.6	19.1	
11 17	1 56.07	+ 1 34.7	0.867	1.797	15.4	18.8	11 17	1 46.88	+30 6.3	1.485	2.414	10.3	19.2	
11 27	1 54.42	+ 0 56.7	0.931	1.807	20.1	19.1	11 27	1 40.14	+29 20.6	1.532	2.407	13.6	19.4	
113528	2002 TP ₁₉	10 27.4 146°06			1°1/26.5 18			334270	2001 UD ₄₀	10 27.4 21°20			2°0/26.2 18	
9 18	2 32.55	+12 49.4	1.930	2.737	15.0	20.3	9 18	2 30.92	+11 13.0	1.096	1.949	20.9	20.2	
9 28	2 28.86	+12 13.8	1.849	2.738	11.8	20.1	9 28	2 28.94	+10 46.0	1.043	1.958	16.4	19.9	
10 8	2 22.94	+11 27.4	1.789	2.739	8.0	19.9	10 8	2 23.65	+10 5.9	1.008	1.969	11.1	19.7	
10 18	2 15.34	+10 33.3	1.755	2.740	3.9	19.7	10 18	2 15.85	+ 9 17.8	0.993	1.981	5.4	19.4	
10 28	2 6.91	+ 9 36.5	1.749	2.741	1.3	19.5	10 28	2 6.92	+ 8 29.5	1.002	1.994	2.3	19.3	
11 7	1 58.67	+ 8 42.8	1.771	2.742	5.2	19.8	11 7	1 58.46	+ 7 49.4	1.035	2.008	7.3	19.6	
11 17	1 51.53	+ 7 57.9	1.821	2.743	9.2	20.0	11 17	1 51.87	+ 7 24.5	1.090	2.024	12.6	20.0	
11 27	1 46.28	+ 7 26.3	1.896	2.744	12.7	20.2	11 27	1 48.12	+ 7 18.9	1.166	2.041	17.1	20.3	
25967	2001 FF ₂₉	10 27.4 122°17			2°5/24.9 18			177785	2005 LH ₁₂	10 27.4 185°84			1°0/26.6 18	
9 18	2 32.46	+ 9 59.1	2.090	2.899	13.9	18.7	9 18	2 35.74	+13 55.1					

EPHEMERIDES

10 27.4

10 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
474128	1995 SV ₂₈	10 27.4 5 ^h 33 ^m 1.7 ^s /28.4 16											
9 18	2 32.22	+17 38.3	1.354	2.175	19.4	20.8	9 18	2 29.98	+ 3 34.7	2.012	2.838	13.8	21.6
9 28	2 29.71	+17 48.7	1.282	2.175	15.7	20.6	9 28	2 26.74	+ 2 32.4	1.933	2.833	10.8	21.4
10 8	2 24.14	+17 43.2	1.228	2.176	11.1	20.3	10 8	2 21.46	+ 1 25.5	1.877	2.828	7.6	21.2
10 18	2 16.14	+17 22.4	1.196	2.177	6.0	20.0	10 18	2 14.64	+ 0 19.5	1.846	2.823	4.9	21.0
10 28	2 6.89	+16 49.3	1.188	2.180	1.7	19.8	10 28	2 7.05	- 0 39.2	1.843	2.818	4.8	21.0
11 7	1 57.85	+16 10.0	1.205	2.183	5.6	20.0	11 7	1 59.60	- 1 24.5	1.868	2.814	7.4	21.1
11 17	1 50.39	+15 32.0	1.247	2.188	10.6	20.3	11 17	1 53.14	- 1 52.5	1.919	2.809	10.6	21.3
11 27	1 45.56	+15 2.5	1.312	2.193	15.0	20.6	11 27	1 48.37	- 2 1.0	1.993	2.805	13.6	21.5
165622	2001 FZ ₁₀₉	10 27.4 292 ^h 20 ^m 6 ^s /20.2 18											
9 18	2 29.45	+ 4 13.6	1.721	2.557	15.3	19.6	9 18	2 38.08	+11 16.8	2.230	3.020	13.7	21.8
9 28	2 26.77	+ 1 42.0	1.637	2.542	12.1	19.3	9 28	2 33.06	+11 18.3	2.129	3.008	10.9	21.6
10 8	2 21.73	- 1 2.9	1.576	2.527	8.8	19.1	10 8	2 25.84	+11 13.4	2.051	2.995	7.5	21.4
10 18	2 14.85	- 3 50.4	1.543	2.512	6.7	18.9	10 18	2 16.86	+11 3.5	1.999	2.983	3.7	21.1
10 28	2 6.99	- 6 27.3	1.539	2.498	7.7	19.0	10 28	2 6.91	+10 51.0	1.976	2.969	0.8	20.9
11 7	1 59.22	- 8 41.0	1.563	2.483	10.7	19.1	11 7	1 56.94	+10 39.2	1.984	2.955	4.6	21.1
11 17	1 52.56	-10 23.2	1.612	2.468	14.2	19.3	11 17	1 47.92	+10 31.6	2.020	2.941	8.5	21.4
11 27	1 47.86	-11 30.2	1.683	2.454	17.4	19.5	11 27	1 40.66	+10 31.4	2.083	2.926	11.9	21.5
55346	2001 SS ₁₃₉	10 27.4 186 ^h 03 ^m 0 ^s /4/27.7 18											
9 18	2 36.68	+16 12.0	1.939	2.729	15.5	20.5	9 18	2 38.32	+23 45.1	1.748	2.517	17.8	17.8
9 28	2 32.20	+15 56.2	1.852	2.729	12.4	20.3	9 28	2 33.96	+24 3.2	1.664	2.520	14.6	17.6
10 8	2 25.31	+15 28.0	1.786	2.728	8.6	20.0	10 8	2 26.80	+24 4.0	1.599	2.522	10.9	17.4
10 18	2 16.57	+14 48.9	1.745	2.727	4.4	19.8	10 18	2 17.42	+23 46.0	1.558	2.525	7.0	17.2
10 28	2 6.89	+14 2.3	1.732	2.726	0.4	19.5	10 28	2 6.88	+23 10.1	1.542	2.527	4.0	17.0
11 7	1 57.35	+13 13.6	1.749	2.724	4.7	19.8	11 7	1 56.50	+22 20.8	1.555	2.528	5.4	17.1
11 17	1 48.99	+12 28.5	1.794	2.721	8.9	20.0	11 17	1 47.52	+21 25.0	1.595	2.530	9.2	17.3
11 27	1 42.65	+11 52.5	1.864	2.718	12.6	20.3	11 27	1 40.94	+20 31.0	1.659	2.531	13.0	17.6
143257	2003 AE	10 27.4 0 ^h 21 ^m 30 ^s /3/18.0 18											
9 18	2 14.98	-39 48.2	0.713	1.554	30.3	18.0	9 18	2 34.96	+24 51.4	1.391	2.181	20.5	18.9
9 28	2 18.39	-42 16.0	0.708	1.543	30.7	18.0	9 28	2 31.74	+24 45.5	1.326	2.195	16.8	18.7
10 8	2 17.31	-43 41.0	0.712	1.537	31.2	18.0	10 8	2 25.40	+24 15.8	1.279	2.209	12.5	18.5
10 18	2 12.90	-43 51.2	0.723	1.535	31.8	18.1	10 18	2 16.71	+23 21.9	1.252	2.223	7.7	18.3
10 28	2 7.14	-42 40.3	0.741	1.538	32.3	18.1	10 28	2 6.93	+22 7.6	1.251	2.238	4.0	18.1
11 7	2 2.14	-40 11.7	0.767	1.545	32.8	18.2	11 7	1 57.60	+20 41.2	1.276	2.252	5.7	18.2
11 17	1 59.41	-36 35.7	0.800	1.556	33.2	18.4	11 17	1 50.02	+19 13.2	1.326	2.267	10.0	18.5
11 27	1 59.81	-32 7.3	0.843	1.571	33.6	18.5	11 27	1 45.15	+17 54.0	1.401	2.282	14.2	18.8
159331	2006 DU ₅	10 27.4 146 ^h 07 ^m 2 ^s /0/25.4 18											
9 18	2 31.64	+ 8 1.7	2.577	3.380	11.8	20.7	9 18	2 32.92	+38 12.3	1.655	2.367	20.6	19.6
9 28	2 27.49	+ 7 31.8	2.497	3.384	9.2	20.5	9 28	2 30.44	+39 26.8	1.583	2.374	18.3	19.4
10 8	2 21.67	+ 6 57.1	2.440	3.389	6.2	20.4	10 8	2 24.79	+40 16.1	1.527	2.381	15.6	19.3
10 18	2 14.64	+ 6 20.3	2.410	3.393	3.2	20.2	10 18	2 16.55	+40 34.3	1.489	2.390	12.9	19.1
10 28	2 7.03	+ 5 45.1	2.410	3.397	2.2	20.1	10 28	2 6.93	+40 18.0	1.473	2.400	10.9	19.0
11 7	1 59.56	+ 5 15.2	2.439	3.401	4.7	20.3	11 7	1 57.49	+39 29.4	1.480	2.411	10.3	19.0
11 17	1 52.92	+ 4 53.9	2.497	3.405	7.7	20.5	11 17	1 49.70	+38 15.4	1.511	2.424	11.4	19.1
11 27	1 47.67	+ 4 43.3	2.581	3.408	10.4	20.7	11 27	1 44.67	+36 47.1	1.565	2.437	13.6	19.3
69081	2003 AZ ₆₄	10 27.4 37 ^h 73 ^m 8 ^s /9/24.9 18											
9 18	2 45.58	- 6 26.3	1.029	1.873	22.6	16.6	9 18	2 36.06	+ 9 50.6	2.126	2.926	14.0	21.9
9 28	2 39.99	- 6 33.1	0.999	1.901	18.2	16.4	9 28	2 31.40	+ 9 25.3	2.041	2.926	11.0	21.7
10 8	2 30.78	- 6 28.4	0.986	1.930	13.6	16.3	10 8	2 24.61	+ 8 52.9	1.978	2.926	7.5	21.5
10 18	2 19.13	- 6 5.1	0.994	1.961	9.8	16.2	10 18	2 16.19	+ 8 16.0	1.941	2.925	3.7	21.2
10 28	2 6.77	- 5 18.3	1.025	1.992	9.1	16.3	10 28	2 6.97	+ 7 38.9	1.933	2.924	1.9	21.1
11 7	1 55.52	- 4 8.1	1.080	2.024	11.6	16.5	11 7	1 57.88	+ 7 6.2	1.955	2.922	5.2	21.3
11 17	1 46.76	- 2 38.4	1.158	2.057	15.3	16.8	11 17	1 49.84	+ 6 42.0	2.005	2.920	8.9	21.5
11 27	1 41.27	- 0 54.3	1.257	2.090	18.7	17.2	11 27	1 43.59	+ 6 29.7	2.081	2.917	12.2	21.7
268198	2005 AD ₃₈	10 27.4 327 ^h 49 ^m 0 ^s /4/27.7 18											
9 18	2 29.07	+16 21.7	1.928	2.733	15.1	20.3	9 18	2 33.37	+ 9 31.1	2.611	3.406	11.8	20.8
9 28	2 26.35	+16 1.7	1.833	2.719	12.0	20.1	9 28	2 28.82	+ 9 15.9	2.530	3.413	9.3	20.6
10 8	2 21.41	+15 28.5	1.759	2.705	8.4	19.9	10 8	2 22.58	+ 8 55.6	2.472	3.419	6.3	20.4
10 18	2 14.70	+14 44.0	1.709	2.692	4.3	19.6	10 18	2 15.11	+ 8 32.3	2.441	3.425	3.1	20.2
10 28	2 7.03	+13 51.7	1.686	2.680	0.4	19.3	10 28	2 7.04	+ 8 9.0	2.440	3.431	1.4	20.1
11 7	1 59.40	+12 57.4	1.692	2.668	4.6	19.6	11 7	1 59.12	+ 7 48.9	2.469	3.436	4.2	20.3
11 17	1 52.78	+12 7.0	1.724	2.657	8.8	19.8	11 17	1 52.03	+ 7 34.9	2.527	3.441	7.3	20.5
11 27	1 48.00	+11 26.3	1.782	2.646	12.6	20.0	11 27	1 46.37	+ 7 29.6	2.612	3.446	10.1	20.7
519489	2012 DV ₁₀₂	10 27.4 144 ^h 63 ^m 3 ^s /4/25.3 17											
9 18	2 38.69	+ 6 42.0	1.561	2.382	17.3	21.6	9 18	2 30.57	+ 5 16.8	2.434	3.246	12.1	21.2
9 28	2 34.14	+ 6 10.2	1.490	2.387	13.6	21.3	9 28	2 26.74	+ 4 12.2	2.357	3.250	9.4	21.0
10 8	2 26.81	+ 5 32.0	1.439	2.392	9.4	21.1	10 8	2 21.21	+ 3 2.7	2.304	3.254	6.5	20.9
10 18	2 17.35	+ 4 52.1	1.413	2.396	5.1	20.9	10 18	2 14.44	+ 1 53.0	2.279	3.257	4.0	20.7
10 28	2 6.87	+ 4 16.6	1.414	2.400	3.7	20.8	10 28	2 7.09	+ 0 48.4	2.283	3.261	3.7	20.7
11 7	1 56.68	+ 3 51.5	1.442	2.404	7.3	21.0	11 7	1 59.90	- 0 6.0	2.317	3.264	6.1	20.9
11 17	1 47.97	+ 3 41.2	1.496	2.408	11.6	21.3	11 17	1 53.56	- 0 46.4	2.378	3.267	8.9	21.1
11 27	1 41.67	+ 3 48.1	1.573	2.411	15.4	21.5	11 27	1 48.67	- 1 10.5	2.464	3.269	11.5	21.2
126888	Tspitzer	10 27.4 167 ^h 62 ^m 0 ^s /7/28.0 18											
9 18	2 34.25	+18 32.9	2.053	2.836	15.0	20.9	9 18	2 33.28	+ 7 36.5	1.018	1.878	21.7	20.0
9 28	2 30.11	+17 59.2	1.967	2.839	12.0	20.7	9 28	2 31.03	+ 7 4.0	0.966	1.885	17.0	19.7
10 8	2 23.77	+17 10.8	1.903	2.842	8.4	20.4	10 8	2 25.23	+ 6 22.1	0.932	1.894	11.6	19.4
10 18	2 15.78	+16 9.7	1.864	2.845	4.4	20.2	10 18	2 16.71	+ 5 37.6	0.918	1.904	6.1	19.2

EPHEMERIDES

10 27.4

10 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
135917	2002 TW ₁₄₇		10 27.4	52°77'	1.7°/28.8	18	201497	Marcelroche		10 27.4	77°83'	5°1'/23.2	17
9 18	2 32.91	+19 55.0	1.802	2.593	16.5	20.2	9 18	2 36.09	+3 57.5	1.692	2.516	16.0	19.7
9 28	2 29.41	+19 40.9	1.724	2.598	13.3	20.0	9 28	2 31.46	+2 27.2	1.649	2.547	12.4	19.6
10 8	2 23.48	+19 10.9	1.666	2.604	9.5	19.8	10 8	2 24.54	+0 53.4	1.628	2.578	8.7	19.4
10 18	2 15.69	+18 26.0	1.631	2.610	5.2	19.6	10 18	2 16.07	-0 36.3	1.633	2.608	5.7	19.3
10 28	2 7.01	+17 29.8	1.624	2.616	1.7	19.4	10 28	2 7.06	-1 53.6	1.666	2.638	5.6	19.4
11 7	1 58.55	+16 28.2	1.645	2.622	4.6	19.6	11 7	1 58.58	-2 52.0	1.727	2.668	8.3	19.6
11 17	1 51.34	+15 28.2	1.693	2.628	8.7	19.8	11 17	1 51.52	-3 27.9	1.813	2.697	11.5	19.9
11 27	1 46.21	+14 36.3	1.766	2.634	12.5	20.1	11 27	1 46.54	-3 40.5	1.922	2.725	14.4	20.1
483295	2015 UT ₈		10 27.4	347°85'	1.4°/26.3	18	211787	2004 CJ ₄₄		10 27.4	46°44'	0°8'/26.8	18
9 18	2 31.42	+11 41.9	1.874	2.688	15.1	21.5	9 18	2 33.76	+12 36.1	1.801	2.611	15.8	20.8
9 28	2 28.09	+11 11.3	1.792	2.686	11.9	21.3	9 28	2 29.99	+12 18.6	1.726	2.616	12.4	20.6
10 8	2 22.51	+10 30.9	1.732	2.684	8.1	21.1	10 8	2 23.83	+11 51.2	1.672	2.622	8.5	20.4
10 18	2 15.21	+9 43.7	1.697	2.682	4.0	20.9	10 18	2 15.88	+11 16.5	1.642	2.627	4.1	20.1
10 28	2 7.05	+8 54.8	1.689	2.681	1.6	20.7	10 28	2 7.06	+10 38.7	1.640	2.633	1.0	19.9
11 7	1 59.03	+8 9.8	1.709	2.680	5.4	20.9	11 7	1 58.45	+10 3.1	1.665	2.638	5.1	20.2
11 17	1 52.11	+7 33.9	1.756	2.679	9.4	21.2	11 17	1 51.06	+9 34.7	1.718	2.644	9.3	20.5
11 27	1 47.09	+7 11.5	1.828	2.678	13.0	21.4	11 27	1 45.70	+9 17.8	1.795	2.650	13.0	20.7
65668	1988 AX ₁		10 27.4	303°69'	8°8'/2.8	18	398556	2011 UV ₃₉₁		10 27.4	344°45'	3°2'/24.9	18
9 18	2 35.39	+34 29.6	1.748	2.471	19.3	17.4	9 18	2 32.44	+6 54.7	1.756	2.581	15.5	21.2
9 28	2 32.38	+35 29.1	1.648	2.455	17.0	17.1	9 28	2 29.02	+6 15.2	1.679	2.579	12.2	21.0
10 8	2 26.24	+36 7.5	1.564	2.439	14.2	16.9	10 8	2 23.22	+5 28.9	1.623	2.577	8.4	20.8
10 18	2 17.39	+36 18.9	1.501	2.423	11.4	16.7	10 18	2 15.60	+4 40.6	1.592	2.575	4.6	20.6
10 28	2 6.89	+35 59.5	1.460	2.407	9.2	16.5	10 28	2 7.08	+3 56.2	1.587	2.573	3.5	20.5
11 7	1 56.22	+35 10.1	1.445	2.391	9.0	16.5	11 7	1 58.72	+3 21.6	1.610	2.572	6.8	20.7
11 17	1 46.91	+33 57.0	1.454	2.376	11.0	16.6	11 17	1 51.55	+3 1.4	1.660	2.570	10.7	20.9
11 27	1 40.27	+32 30.6	1.487	2.361	14.0	16.7	11 27	1 46.37	+2 58.3	1.732	2.569	14.2	21.1
46228	2001 HZ ₂		10 27.4	120°01'	0°0'/27.3	18	406317	2007 JH ₃₁		10 27.4	174°36'	0°1'/27.5	18
9 18	2 31.99	+14 37.2	2.660	3.444	11.9	20.1	9 18	2 36.47	+13 7.1	2.730	3.507	11.8	21.5
9 28	2 27.72	+14 18.4	2.580	3.455	9.4	20.0	9 28	2 31.27	+13 16.3	2.639	3.509	9.4	21.4
10 8	2 21.82	+13 51.3	2.524	3.466	6.4	19.8	10 8	2 24.31	+13 19.5	2.570	3.511	6.5	21.2
10 18	2 14.73	+13 17.7	2.494	3.477	3.2	19.6	10 18	2 16.02	+13 17.5	2.530	3.512	3.2	21.0
10 28	2 7.09	+12 40.5	2.494	3.488	0.2	19.4	10 28	2 7.06	+13 11.9	2.519	3.513	0.2	20.7
11 7	1 59.61	+12 3.3	2.524	3.498	3.6	19.7	11 7	1 58.19	+13 5.2	2.540	3.513	3.6	21.0
11 17	1 52.97	+11 29.7	2.584	3.508	6.7	19.9	11 17	1 50.12	+13 0.0	2.591	3.513	6.7	21.2
11 27	1 47.72	+11 3.2	2.671	3.518	9.5	20.1	11 27	1 43.49	+12 59.0	2.669	3.513	9.6	21.4
133475	2003 SJ ₂₅₁		10 27.4	313°08'	0°5'/27.8	18	366291	2013 BZ ₄₀		10 27.4	306°16'	6°1'/22.5	18
9 18	2 34.40	+14 38.8	2.318	3.105	13.4	19.8	9 18	2 31.64	+0 26.9	1.756	2.588	15.2	20.7
9 28	2 30.05	+14 49.7	2.226	3.102	10.6	19.6	9 28	2 28.41	-0 41.6	1.678	2.580	12.1	20.5
10 8	2 23.68	+14 52.8	2.157	3.099	7.4	19.4	10 8	2 22.83	-1 52.9	1.623	2.571	8.8	20.3
10 18	2 15.77	+14 48.8	2.114	3.096	3.8	19.1	10 18	2 15.43	-3 0.0	1.592	2.563	6.4	20.1
10 28	2 7.03	+14 39.5	2.100	3.093	0.5	18.9	10 28	2 7.11	-3 55.3	1.588	2.554	6.5	20.1
11 7	1 58.37	+14 27.8	2.115	3.090	3.9	19.1	11 7	1 58.92	-4 32.0	1.610	2.546	9.2	20.3
11 17	1 50.61	+14 17.0	2.159	3.088	7.5	19.4	11 17	1 51.86	-4 46.2	1.657	2.538	12.5	20.5
11 27	1 44.50	+14 10.6	2.230	3.085	10.8	19.6	11 27	1 46.78	-4 36.8	1.726	2.531	15.7	20.7
69789	1998 QS ₈₇		10 27.4	71°82'	0°8'/28.2	18	102365	1999 TU ₁₃₉		10 27.4	143°34'	0°2'/27.3	16
9 18	2 35.42	+20 55.5	1.758	2.542	17.1	18.5	9 18	2 35.13	+16 46.0	1.628	2.432	17.4	20.3
9 28	2 31.04	+19 52.4	1.701	2.573	13.5	18.3	9 28	2 31.36	+16 0.1	1.551	2.437	13.8	20.1
10 8	2 24.30	+18 30.8	1.665	2.604	9.4	18.1	10 8	2 24.93	+14 57.3	1.495	2.442	9.6	19.8
10 18	2 15.95	+16 54.4	1.654	2.635	4.9	17.9	10 18	2 16.47	+13 40.7	1.462	2.447	4.7	19.6
10 28	2 7.03	+15 9.9	1.672	2.665	0.8	17.7	10 28	2 7.05	+12 16.6	1.457	2.451	0.4	19.3
11 7	1 58.65	+13 26.2	1.719	2.695	4.6	18.0	11 7	1 57.90	+10 53.4	1.481	2.455	5.4	19.6
11 17	1 51.71	+11 51.7	1.795	2.725	8.7	18.3	11 17	1 50.16	+9 39.4	1.531	2.459	10.1	19.9
11 27	1 46.89	+10 32.9	1.896	2.754	12.3	18.6	11 27	1 44.71	+8 41.4	1.605	2.462	14.1	20.2
411575	2011 ED ₇		10 27.4	243°64'	3°7'/23.3	18	359828	2011 UX ₃₁₆		10 27.4	206°47'	0°4'/27.8	18
9 18	2 29.55	+3 18.3	2.561	3.375	11.5	21.4	9 18	2 33.25	+16 39.7	2.275	3.060	13.7	21.8
9 28	2 25.95	+2 19.6	2.474	3.367	9.0	21.2	9 28	2 29.18	+16 19.0	2.183	3.057	10.9	21.6
10 8	2 20.71	+1 17.3	2.411	3.359	6.4	21.0	10 8	2 23.11	+15 47.0	2.112	3.053	7.6	21.4
10 18	2 14.23	+0 15.6	2.376	3.351	4.1	20.9	10 18	2 15.50	+15 5.1	2.068	3.049	3.9	21.2
10 28	2 7.14	-0 40.2	2.370	3.343	4.1	20.9	10 28	2 7.11	+14 16.5	2.052	3.045	0.4	20.9
11 7	2 0.13	-1 25.7	2.392	3.334	6.2	21.0	11 7	1 58.82	+13 25.8	2.065	3.040	4.0	21.2
11 17	1 53.88	-1 57.3	2.443	3.326	8.9	21.2	11 17	1 51.47	+12 38.2	2.108	3.036	7.8	21.4
11 27	1 48.97	-2 13.0	2.518	3.317	11.5	21.3	11 27	1 45.78	+11 58.3	2.177	3.030	11.1	21.6
44104	1998 GO ₁		10 27.4	166°31'	4°8'/23.6	18	157375	2004 TK ₁₄₀		10 27.4	329°47'	0°7'/28.1	18
9 18	2 36.30	+4 2.2	1.788	2.608	15.5	18.5	9 18	2 27.96	+16 49.7	2.515	3.304	12.4	19.8
9 28	2 31.88	+2 52.8	1.716	2.612	12.2	18.3	9 28	2 24.95	+16 39.9	2.412	3.288	9.9	19.6
10 8	2 25.06	+1 37.9	1.667	2.616	8.5	18.1	10 8	2 20.18	+16 20.2	2.332	3.273	7.0	19.4
10 18	2 16.45	+0 23.9	1.643	2.620	5.4	17.9	10 18	2 14.06	+15 51.8	2.278	3.259	3.7	19.2
10 28	2 7.00	-0 41.6	1.647	2.622	5.2	17.9	10 28	2 7.20	+15 16.9	2.251	3.244	0.7	18.9
11 7	1 57.80	-1 31.8	1.678	2.624	8.1	18.1	11 7	2 0.36	+14 39.3	2.254	3.231	3.6	19.2
11 17	1 49.86	-2 2.2	1.736	2.626	11.6	18.3	11 17	1 54.26	+14 3.0	2.286	3.217	7.0	19.4
11 27	1 43.97	-2 10.8	1.817	2.626	14.9	18.5	11 27	1 49.55	+13 32.1	2.344	3.204	10.1	19.5
328754	2009 UE ₆₆		10 27.4	338°31'	2°1'/25.4	18	48333	2002 OW ₆		10 27.4	301°75'	5°1'/1.4	17
9 18	2 28.73	+10 55.8	2.082	2.897	13.7	20.4	9 18	2 31.28	+30 25.6	2.299	3.028	15.1	18.8
9 28	2 25.74	+9 58.1	1.998	2.893	10.8	20.2	9 28	2 28.01	+30 37.0	2.193	3.014	12.8	18.7
10 8	2 20.78	+8 50.4	1.937	2.890	7.3	20.0	10 8	2 22.54	+30 30.5	2.106	2.999	10.2	18.5
10 18	2 14.33	+7 36.7	1.901	2.886	3.7	19.7	10 18	2 15.32	+30 4.0	2.042	2.986	7.4	18.3
10 28	2 7.15	+6 22.8	1.894	2.883	2.3	19.6	10 28	2 7.14	+29 17.7	2.005	2.972	5.4	18.1
11 7	2 0.10	+5 15.2	1.916	2.880	5.5	19.9	11 7	1 58.96	+28 14.7	1.995	2.958	5.5	18.1
11 17	1 54.01	+4 19.5	1.965	2.878	9.2	20.1	11 17	1 51.74	+27 0.5	2.013	2.945	7.8	18.2
11 27	1 49.56	+3 39.7	2.039	2.876	12.4	20.3	11 27	1 46.32	+25 42.7				

EPHEMERIDES

10 27.4

10 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
114061	2002 VQ ₂₄	10 27.4 34° 15' 18"					367771	2010 WS ₇₃	10 27.4 153° 76' 3" 9" / 23.9 18"				
9 18	2 35.16	+ 9 57.3	1.652	2.471	16.6	18.9	9 18	2 33.58	+ 1 7.2	2.496	3.305	11.9	20.8
9 28	2 31.25	+ 9 49.7	1.582	2.478	13.0	18.7	9 28	2 29.06	+ 0 34.8	2.420	3.308	9.4	20.6
10 8	2 24.79	+ 9 34.6	1.534	2.486	8.9	18.5	10 8	2 22.81	+ 0 1.8	2.368	3.312	6.7	20.5
10 18	2 16.40	+ 9 14.8	1.509	2.494	4.4	18.3	10 18	2 15.30	- 0 28.1	2.342	3.315	4.4	20.3
10 28	2 7.09	+ 8 54.5	1.511	2.503	1.7	18.1	10 28	2 7.19	- 0 50.8	2.346	3.318	4.1	20.3
11 7	1 58.04	+ 8 38.4	1.541	2.512	5.7	18.4	11 7	1 59.24	- 1 2.9	2.378	3.321	6.2	20.5
11 17	1 50.35	+ 8 30.7	1.597	2.522	10.0	18.7	11 17	1 52.16	- 1 2.3	2.439	3.324	8.9	20.6
11 27	1 44.85	+ 8 34.6	1.677	2.532	13.7	18.9	11 27	1 46.54	- 0 48.0	2.525	3.327	11.4	20.8
349693	2008 XS ₂	10 27.4 312° 51' 20" 2' / 8.9 18"					203197	2001 DG ₁	10 27.4 349° 57' 3" 9" / 29.7 18"				
9 18	2 51.20	- 40 39.5	1.682	2.378	20.9	20.1	9 18	2 29.61	+ 20 57.2	1.237	2.060	20.8	19.4
9 28	2 44.61	- 41 59.6	1.632	2.355	20.4	20.0	9 28	2 28.23	+ 21 30.5	1.159	2.050	17.2	19.1
10 8	2 34.29	- 42 48.7	1.596	2.332	20.2	20.0	10 8	2 23.55	+ 21 45.3	1.098	2.041	12.7	18.8
10 18	2 21.15	- 42 54.2	1.575	2.309	20.4	19.9	10 18	2 16.12	+ 21 39.7	1.057	2.033	7.8	18.5
10 28	2 6.80	- 42 6.7	1.569	2.286	20.9	19.9	10 28	2 7.12	+ 21 14.6	1.039	2.027	4.0	18.3
11 7	1 53.12	- 40 23.9	1.579	2.264	21.8	19.9	11 7	1 58.17	+ 20 35.3	1.045	2.023	6.2	18.4
11 17	1 41.70	- 37 50.3	1.605	2.243	23.0	20.0	11 17	1 50.85	+ 19 50.0	1.074	2.020	11.2	18.7
11 27	1 33.58	- 34 35.0	1.645	2.222	24.2	20.0	11 27	1 46.39	+ 19 8.4	1.125	2.019	15.9	18.9
43006	1999 UG ₂₆	10 27.4 293° 36' 2" 4' / 29.5 18"					514028	2014 KH ₅₃	10 27.4 176° 15' 4" 0' / 23.6 18"				
9 18	2 31.59	+ 21 49.4	2.158	2.931	14.7	19.1	9 18	2 34.78	+ 1 17.8	2.518	3.323	11.9	23.0
9 28	2 28.25	+ 21 46.1	2.051	2.913	12.0	18.9	9 28	2 29.99	+ 0 33.2	2.439	3.325	9.4	22.9
10 8	2 22.72	+ 21 28.3	1.966	2.895	8.8	18.7	10 8	2 23.44	- 0 12.7	2.384	3.327	6.7	22.7
10 18	2 15.43	+ 20 55.7	1.905	2.878	5.3	18.4	10 18	2 15.62	- 0 55.8	2.357	3.329	4.5	22.6
10 28	2 7.15	+ 20 10.1	1.871	2.860	2.5	18.2	10 28	2 7.17	- 1 31.7	2.359	3.330	4.3	22.6
11 7	1 58.83	+ 19 15.6	1.866	2.842	4.3	18.3	11 7	1 58.89	- 1 56.3	2.390	3.330	6.4	22.7
11 17	1 51.45	+ 18 18.1	1.889	2.825	8.0	18.5	11 17	1 51.47	- 2 7.1	2.450	3.329	9.1	22.9
11 27	1 45.83	+ 17 23.8	1.938	2.807	11.5	18.7	11 27	1 45.52	- 2 2.9	2.534	3.328	11.6	23.0
264131	Bornim	10 27.4 76° 21' 4" 3' / 30.6 17"					481568	2007 TB ₁₂	10 27.4 14° 01' 1" 1' / 26.5 17"				
9 18	2 38.84	+ 25 26.8	1.492	2.267	20.0	20.5	9 18	2 26.71	+ 18 0.1	1.365	2.194	18.9	20.0
9 28	2 34.58	+ 25 36.8	1.430	2.288	16.5	20.4	9 28	2 25.17	+ 16 29.8	1.296	2.198	14.9	19.8
10 8	2 27.25	+ 25 25.0	1.386	2.309	12.3	20.2	10 8	2 20.89	+ 14 35.6	1.248	2.203	10.2	19.5
10 18	2 17.64	+ 24 50.0	1.364	2.329	7.9	20.0	10 18	2 14.54	+ 12 23.9	1.222	2.209	4.9	19.3
10 28	2 7.03	+ 23 54.4	1.367	2.350	4.6	19.8	10 28	2 7.24	+ 10 5.4	1.223	2.216	1.4	19.1
11 7	1 56.90	+ 22 44.9	1.396	2.370	5.8	20.0	11 7	2 0.27	+ 7 53.5	1.251	2.224	6.4	19.4
11 17	1 48.54	+ 21 30.6	1.453	2.390	9.6	20.2	11 17	1 54.77	+ 6 0.1	1.304	2.233	11.4	19.7
11 27	1 42.88	+ 20 21.2	1.533	2.410	13.5	20.5	11 27	1 51.57	+ 4 33.3	1.380	2.242	15.7	20.0
49916	1999 XV ₁₇₁	10 27.4 167° 25' 4" 9' / 23.4 18"					86600	2000 EW ₇₄	10 27.4 135° 82' 0" 2' / 27.6 18"				
9 18	2 36.62	- 0 53.7	2.236	3.044	13.1	19.1	9 18	2 37.32	+ 15 51.4	1.830	2.624	16.2	21.4
9 28	2 31.63	- 1 32.2	2.161	3.048	10.4	19.0	9 28	2 32.76	+ 15 32.2	1.754	2.633	12.8	21.2
10 8	2 24.66	- 2 10.3	2.110	3.051	7.6	18.8	10 8	2 25.74	+ 15 0.4	1.699	2.642	8.9	21.0
10 18	2 16.23	- 2 43.3	2.086	3.054	5.3	18.7	10 18	2 16.86	+ 14 17.9	1.668	2.651	4.5	20.7
10 28	2 7.11	- 3 6.2	2.090	3.056	5.2	18.7	10 28	2 7.11	+ 13 28.6	1.666	2.659	0.3	20.4
11 7	1 58.19	- 3 15.4	2.122	3.058	7.3	18.8	11 7	1 57.61	+ 12 38.4	1.692	2.667	4.8	20.8
11 17	1 50.29	- 3 8.8	2.182	3.060	10.1	19.0	11 17	1 49.41	+ 11 53.2	1.746	2.674	9.0	21.1
11 27	1 44.08	- 2 45.9	2.267	3.061	12.8	19.2	11 27	1 43.34	+ 11 18.3	1.826	2.681	12.8	21.3
274932	2009 SN ₂₀₁	10 27.4 7° 9' 0" 8' / 26.8 17"					1234	Elyna	10 27.4 0° 64' 4" 7' / 31.5 18"				
9 18	2 30.45	+ 12 26.7	1.703	2.524	16.1	20.7	9 18	2 32.74	+ 27 20.7	2.001	2.754	16.3	15.4
9 28	2 27.57	+ 12 12.5	1.629	2.525	12.7	20.5	9 28	2 29.35	+ 27 42.5	1.913	2.753	13.7	15.2
10 8	2 22.30	+ 11 48.2	1.575	2.528	8.7	20.3	10 8	2 23.55	+ 27 46.9	1.844	2.752	10.6	15.0
10 18	2 15.19	+ 11 16.6	1.546	2.531	4.2	20.0	10 18	2 15.85	+ 27 32.0	1.798	2.752	7.4	14.8
10 28	2 7.18	+ 10 42.0	1.542	2.535	1.0	19.8	10 28	2 7.16	+ 26 58.2	1.778	2.753	5.0	14.7
11 7	1 59.37	+ 10 9.8	1.566	2.540	5.2	20.1	11 7	1 58.57	+ 26 9.2	1.785	2.753	5.5	14.7
11 17	1 52.76	+ 9 45.0	1.617	2.546	9.5	20.4	11 17	1 51.13	+ 25 10.8	1.820	2.754	8.3	14.9
11 27	1 48.18	+ 9 31.9	1.691	2.553	13.3	20.6	11 27	1 45.71	+ 24 10.7	1.880	2.756	11.5	15.1
412972	2014 QQ ₃₅₁	10 27.4 338° 88' 4" 9' / 22.3 18"					354495	2004 GX ₄	10 27.4 228° 50' 1" 4' / 26.0 18"				
9 18	2 29.09	+ 1 9.0	2.291	3.114	12.4	21.1	9 18	2 33.48	+ 10 32.2	2.525	3.320	12.2	22.0
9 28	2 25.76	- 0 4.9	2.217	3.113	9.8	20.9	9 28	2 29.16	+ 9 59.4	2.425	3.308	9.6	21.9
10 8	2 20.67	- 1 21.4	2.166	3.112	7.1	20.8	10 8	2 23.02	+ 9 19.1	2.348	3.295	6.6	21.6
10 18	2 14.27	- 2 34.9	2.142	3.111	5.1	20.6	10 18	2 15.48	+ 8 34.0	2.298	3.282	3.3	21.4
10 28	2 7.24	- 3 39.2	2.146	3.110	5.3	20.7	10 28	2 7.19	+ 7 47.8	2.278	3.268	1.6	21.3
11 7	2 0.36	- 4 29.1	2.178	3.110	7.4	20.8	11 7	1 58.93	+ 7 4.8	2.288	3.254	4.6	21.5
11 17	1 54.35	- 5 1.0	2.237	3.109	10.1	21.0	11 17	1 51.47	+ 6 29.2	2.327	3.239	8.0	21.6
11 27	1 49.81	- 5 13.5	2.319	3.109	12.7	21.1	11 27	1 45.46	+ 6 4.4	2.392	3.224	11.0	21.8
428477	2007 VO ₅₈	10 27.4 31° 97' 2" 7' / 28.9 16"					107413	2001 DE ₉	10 27.4 27° 67' 17" 0' / 11.8 16"				
9 18	2 34.10	+ 19 34.6	0.916	1.761	24.8	20.5	9 18	2 27.64	- 15 2.8	1.066	1.929	20.7	18.3
9 28	2 32.13	+ 19 48.8	0.873	1.778	19.9	20.3	9 28	2 26.37	- 18 43.2	1.046	1.939	18.4	18.2
10 8	2 26.20	+ 19 39.4	0.846	1.797	14.2	20.0	10 8	2 21.87	- 22 2.0	1.046	1.950	17.1	18.2
10 18	2 17.26	+ 19 6.9	0.836	1.818	7.9	19.8	10 18	2 15.03	- 24 40.0	1.067	1.963	17.3	18.2
10 28	2 7.07	+ 18 16.6	0.848	1.840	2.8	19.6	10 28	2 7.23	- 26 23.3	1.106	1.977	18.6	18.4
11 7	1 57.61	+ 17 18.5	0.883	1.863	6.5	19.9	11 7	2 0.00	- 27 7.6	1.163	1.991	20.6	18.5
11 17	1 50.52	+ 16 23.6	0.939	1.887	12.2	20.3	11 17	1 54.61	- 26 56.7	1.235	2.007	22.6	18.8
11 27	1 46.84	+ 15 41.6	1.016	1.912	17.1	20.6	11 27	1 51.87	- 25 59.4	1.320	2.023	24.4	19.0
374818	2006 UL ₁₂₀	10 27.4 261° 13' 1" 5' / 26.3 17"					506569	2005 UW ₁₂₅	10 27.4 268° 90' 1" 1' / 28.3 18"				
9 18	2 33.57	+ 13 35.5	1.564	2.382	17.4	21.2	9 18	2 33.41	+ 19 7.6	1.666	2.464	17.3	21.6
9 28	2 30.42	+ 12 45.7	1.478	2.3									

EPHEMERIDES

10 27.4

10 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
324259	2006 <i>BZ</i> ₂₁₄		10 27.4 254 ^o 27	6 ^o 3/22.1	18		215073	2009 <i>EC</i> ₂₀		10 27.4 232 ^o 32	5 ^o 6/22.9	18	
9 18	2 34.32	− 6 2.7	2.325	3.135	12.6	20.5	9 18	2 33.75	− 0 15.9	1.922	2.745	14.4	20.1
9 28	2 29.82	− 6 43.6	2.250	3.131	10.3	20.3	9 28	2 29.80	− 1 12.1	1.848	2.743	11.5	19.9
10 8	2 23.43	− 7 20.7	2.197	3.128	8.0	20.1	10 8	2 23.65	− 2 9.3	1.796	2.741	8.4	19.7
10 18	2 15.65	− 7 48.9	2.171	3.124	6.4	20.0	10 18	2 15.84	− 3 1.5	1.770	2.739	6.0	19.6
10 28	2 7.19	− 8 3.2	2.173	3.120	6.6	20.1	10 28	2 7.21	− 3 42.2	1.771	2.737	6.0	19.6
11 7	1 58.89	− 8 0.4	2.202	3.116	8.4	20.2	11 7	1 58.77	− 4 6.2	1.799	2.734	8.4	19.7
11 17	1 51.52	− 7 39.1	2.258	3.112	10.8	20.3	11 17	1 51.42	− 4 10.5	1.853	2.732	11.5	19.9
11 27	1 45.74	− 6 59.8	2.337	3.108	13.1	20.5	11 27	1 45.93	− 3 54.4	1.929	2.730	14.4	20.1
155510	1999 <i>RR</i> ₇₃		10 27.4 359 ^o 16	3 ^o 7/24.1	18		233111	2005 <i>SW</i> ₁₆₂		10 27.4 19 ^o 56	5 ^o 8/24.7	18	
9 18	2 28.66	+ 7 21.2	1.833	2.663	14.8	19.8	9 18	2 31.97	+ 3 18.0	0.966	1.836	21.8	19.5
9 28	2 25.94	+ 6 10.6	1.758	2.662	11.5	19.6	9 28	2 30.05	+ 2 45.1	0.923	1.847	17.1	19.3
10 8	2 21.06	+ 4 51.5	1.706	2.661	7.9	19.3	10 8	2 24.58	+ 2 9.2	0.897	1.859	12.0	19.0
10 18	2 14.55	+ 3 29.8	1.678	2.660	4.6	19.1	10 18	2 16.45	+ 1 38.3	0.890	1.873	7.2	18.8
10 28	2 7.26	+ 2 12.7	1.678	2.660	4.1	19.1	10 28	2 7.18	+ 1 20.9	0.905	1.889	6.2	18.8
11 7	2 0.15	+ 1 7.5	1.705	2.661	7.1	19.3	11 7	1 58.52	+ 1 23.4	0.943	1.906	9.9	19.1
11 17	1 54.11	+ 0 19.8	1.759	2.662	10.7	19.5	11 17	1 51.93	+ 1 48.3	1.002	1.925	14.6	19.4
11 27	1 49.88	− 0 7.3	1.836	2.663	14.0	19.7	11 27	1 48.35	+ 2 34.8	1.080	1.946	18.8	19.8
247271	2001 <i>SF</i> ₈₉		10 27.4 103 ^o 30	1 ^o 7/28.9	18		67848	2000 <i>WB</i> ₇		10 27.4 56 ^o 85	8 ^o 6/3.9	18	
9 18	2 33.46	+ 19 58.6	2.013	2.795	15.3	20.6	9 18	2 37.77	+ 35 49.1	1.600	2.321	20.9	18.5
9 28	2 29.64	+ 19 48.6	1.930	2.798	12.3	20.4	9 28	2 34.08	+ 36 33.4	1.534	2.339	18.1	18.3
10 8	2 23.58	+ 19 24.4	1.867	2.802	8.8	20.2	10 8	2 27.14	+ 36 51.0	1.484	2.357	15.0	18.2
10 18	2 15.81	+ 18 46.6	1.828	2.805	4.9	20.0	10 18	2 17.71	+ 36 37.1	1.453	2.375	11.7	18.0
10 28	2 7.19	+ 17 58.2	1.818	2.809	1.7	19.8	10 28	2 7.11	+ 35 50.7	1.446	2.393	9.2	17.9
11 7	1 58.73	+ 17 4.1	1.836	2.812	4.2	19.9	11 7	1 56.91	+ 34 36.1	1.463	2.412	8.8	17.9
11 17	1 51.40	+ 16 10.3	1.882	2.816	8.1	20.2	11 17	1 48.53	+ 33 2.6	1.506	2.430	10.5	18.1
11 27	1 45.96	+ 15 22.7	1.953	2.819	11.6	20.4	11 27	1 42.97	+ 31 22.3	1.573	2.449	13.3	18.3
331359	2012 <i>DC</i> ₆		10 27.4 141 ^o 44	3 ^o 6/24.1	18		215626	2003 <i>SF</i> ₂₅₈		10 27.4 66 ^o 92	0 ^o 4/27.1	18	
9 18	2 32.94	+ 2 29.4	2.476	3.285	12.0	20.5	9 18	2 35.84	+ 16 6.8	1.296	2.118	20.1	20.3
9 28	2 28.59	+ 1 56.1	2.400	3.290	9.4	20.3	9 28	2 32.38	+ 15 24.4	1.239	2.135	15.9	20.1
10 8	2 22.51	+ 1 21.4	2.348	3.294	6.6	20.1	10 8	2 25.82	+ 14 24.1	1.200	2.151	10.9	19.8
10 18	2 15.17	+ 0 48.7	2.323	3.299	4.2	20.0	10 18	2 16.98	+ 13 9.9	1.183	2.168	5.3	19.6
10 28	2 7.24	+ 0 22.3	2.326	3.303	3.8	20.0	10 28	2 7.16	+ 11 49.5	1.192	2.186	0.7	19.3
11 7	1 59.46	+ 0 5.6	2.359	3.306	6.0	20.1	11 7	1 57.86	+ 10 32.6	1.227	2.203	6.1	19.7
11 17	1 52.56	+ 0 1.0	2.420	3.310	8.7	20.3	11 17	1 50.35	+ 9 28.1	1.288	2.220	11.2	20.1
11 27	1 47.11	+ 0 9.9	2.506	3.314	11.3	20.5	11 27	1 45.52	+ 8 42.4	1.371	2.237	15.5	20.4
355342	2007 <i>TB</i> ₁₁₂		10 27.4	1 ^o 72	9 ^o 5/31.3	17	490460	2009 <i>ST</i> ₂₇₀		10 27.4 85 ^o 53	4 ^o 6/22.9	18	
9 18	2 36.24	+ 25 42.4	1.149	1.952	23.3	20.2	9 18	2 30.81	+ 0 39.8	2.327	3.145	12.4	20.1
9 28	2 34.16	+ 27 53.0	1.080	1.948	19.9	19.9	9 28	2 27.03	− 0 16.8	2.258	3.152	9.8	19.9
10 8	2 28.13	+ 29 48.3	1.028	1.946	16.0	19.7	10 8	2 21.49	− 1 14.4	2.214	3.159	7.0	19.7
10 18	2 18.62	+ 31 19.3	0.995	1.947	12.2	19.5	10 18	2 14.68	− 2 8.2	2.195	3.166	4.9	19.6
10 28	2 7.00	+ 32 18.7	0.984	1.949	9.7	19.3	10 28	2 7.30	− 2 52.9	2.206	3.172	5.0	19.6
11 7	1 55.30	+ 32 44.7	0.995	1.954	10.2	19.4	11 7	2 0.10	− 3 24.2	2.244	3.179	7.0	19.8
11 17	1 45.58	+ 32 42.6	1.028	1.961	13.3	19.6	11 17	1 53.81	− 3 39.5	2.309	3.186	9.7	20.0
11 27	1 39.44	+ 32 23.3	1.082	1.969	17.0	19.8	11 27	1 49.00	− 3 37.7	2.398	3.193	12.1	20.2
116870	2004 <i>FR</i> ₁₀₅		10 27.4 221 ^o 37	2 ^o 0/25.8	18		515380	2013 <i>EH</i> ₁₅₅		10 27.4 134 ^o 70	0 ^o 6/27.9	18	
9 18	2 36.16	+ 7 44.2	2.337	3.136	12.9	20.3	9 18	2 34.27	+ 16 26.4	2.285	3.068	13.7	22.3
9 28	2 31.39	+ 7 29.1	2.244	3.128	10.2	20.1	9 28	2 29.92	+ 16 16.9	2.202	3.074	10.9	22.1
10 8	2 24.61	+ 7 9.2	2.173	3.120	7.0	19.9	10 8	2 23.58	+ 15 57.1	2.141	3.081	7.6	21.9
10 18	2 16.30	+ 6 47.1	2.129	3.112	3.6	19.6	10 18	2 15.77	+ 15 28.2	2.106	3.087	3.9	21.7
10 28	2 7.17	+ 6 26.2	2.114	3.103	2.1	19.5	10 28	2 7.23	+ 14 53.1	2.100	3.093	0.6	21.5
11 7	1 58.09	+ 6 10.2	2.129	3.094	5.1	19.7	11 7	1 58.86	+ 14 15.7	2.123	3.099	3.9	21.8
11 17	1 49.92	+ 6 2.2	2.173	3.084	8.5	19.9	11 17	1 51.47	+ 13 40.4	2.176	3.104	7.5	22.0
11 27	1 43.37	+ 6 4.8	2.243	3.074	11.6	20.1	11 27	1 45.75	+ 13 11.6	2.255	3.110	10.7	22.2
402514	2006 <i>DQ</i> ₁₂₃		10 27.4	1 ^o 06	5 ^o 9/31.9	18	339329	2004 <i>XS</i> ₁₆₅		10 27.4 341 ^o 74	3 ^o 4/29.6	18	
9 18	2 34.89	+ 28 35.5	1.990	2.733	16.7	20.3	9 18	2 27.40	+ 21 38.2	1.239	2.063	20.7	19.9
9 28	2 31.19	+ 29 25.5	1.902	2.732	14.1	20.1	9 28	2 26.50	+ 21 49.1	1.156	2.048	17.1	19.6
10 8	2 24.92	+ 29 59.1	1.834	2.732	11.2	19.9	10 8	2 22.40	+ 21 38.4	1.090	2.034	12.6	19.3
10 18	2 16.60	+ 30 13.2	1.787	2.732	8.2	19.7	10 18	2 15.59	+ 21 4.7	1.044	2.022	7.6	19.0
10 28	2 7.14	+ 30 6.7	1.767	2.733	6.1	19.6	10 28	2 7.23	+ 20 10.3	1.021	2.011	3.5	18.7
11 7	1 57.72	+ 29 41.5	1.773	2.734	6.4	19.6	11 7	1 58.87	+ 19 2.6	1.022	2.001	6.0	18.8
11 17	1 49.48	+ 29 2.6	1.807	2.735	8.8	19.8	11 17	1 52.08	+ 17 51.6	1.046	1.993	11.3	19.1
11 27	1 43.36	+ 28 17.2	1.865	2.737	11.7	20.0	11 27	1 48.10	+ 16 48.4	1.092	1.987	16.2	19.4
108274	2001 <i>HF</i> ₅₇		10 27.4 131 ^o 03	5 ^o 0/23.6	18		275521	1997 <i>SU</i> ₂₈		10 27.4 86 ^o 30	1 ^o 0/26.7	16	
9 18	2 37.60	− 0 59.5	2.154	2.962	13.6	20.1	9 18	2 37.50	+ 13 32.9	1.617	2.426	17.3	21.5
9 28	2 32.40	− 1 36.3	2.087	2.974	10.8	19.9	9 28	2 32.98	+ 12 57.5	1.558	2.447	13.6	21.3
10 8	2 25.18	− 2 12.2	2.044	2.985	7.8	19.8	10 8	2 25.88	+ 12 10.0	1.519	2.469	9.2	21.1
10 18	2 16.49	− 2 42.5	2.027	2.995	5.4	19.7	10 18	2 16.92	+ 11 14.0	1.505	2.490	4.5	20.9
10 28	2 7.17	− 3 2.2	2.039	3.006	5.3	19.7	10 28	2 7.19	+ 10 15.3	1.518	2.511	1.2	20.7
11 7	1 58.11	− 3 7.9	2.079	3.015	7.4	19.8	11 7	1 57.91	+ 9 20.8	1.559	2.532	5.5	21.0
11 17	1 50.16	− 2 57.8	2.146	3.025	10.2	20.0	11 17	1 50.14	+ 8 36.5	1.628	2.552	9.9	21.3
11 27	1 43.98	− 2 31.7	2.238	3.033	12.9	20.2	11 27	1 44.65	+ 8 7.0	1.720	2.572	13.6	21.6
22837	Richardcruz		10 27.4	40 ^o 34	2 ^o 1/28.4	18	75187	1999 <i>VU</i> ₁₆₁		10 27.4 300 ^o 46	0 ^o 9/27.9	18	
9 18	2 40.65	+ 15 56.4	1.179	2.000	21.7	17.9	9 18	2 37.12	+ 15 16.7	1.440	2.254	18.8	19.8
9 28	2 36.70	+ 16 39.8	1.121	2.013	17.4	17.7	9 28	2 33.64	+ 15 29.4	1.355	2.245	15.2	19.6
10 8	2 29.14	+ 17 10.0	1.080	2.027	12.3	17.4	10 8	2 27.03	+ 15 29.8	1.288	2.236	10.7	19.3
10 18	2 18.76	+ 17 25.8	1.061	2.042	6.7	17.2	10 18	2 17.81	+ 15 18.1	1.244	2.227	5.6	19.0
10 28	2 7.03	+ 17 28.4	1.065	2.057	2.1	17.0	10 28	2 7.12	+ 14 57.1	1.225	2.219	0.9	18.6
11 7	1 55.76	+ 17 22.3	1.095</										

EPHEMERIDES

10 27.4

10 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
320227	2007 <i>HE</i> ₉₈		10 27.4 196°06	2°8/24.3	18		254841	2005 <i>QU</i> ₁₈₀		10 27.5 42°33	1°7/25.9	18	
9 18	2 30.28	+ 6 11.1	2.744	3.549	11.1	21.2	9 18	2 30.93	+11 48.1	1.960	2.772	14.6	20.5
9 28	2 26.42	+ 5 16.3	2.658	3.547	8.6	21.1	9 28	2 27.60	+10 57.5	1.881	2.774	11.4	20.3
10 8	2 21.00	+ 4 16.6	2.596	3.544	5.9	20.9	10 8	2 22.16	+ 9 56.3	1.825	2.777	7.7	20.1
10 18	2 14.45	+ 3 15.8	2.562	3.542	3.4	20.7	10 18	2 15.13	+ 8 48.5	1.795	2.780	3.8	19.8
10 28	2 7.34	+ 2 18.2	2.557	3.538	3.0	20.7	10 28	2 7.34	+ 7 39.8	1.792	2.783	2.0	19.7
11 7	2 0.33	+ 1 28.3	2.583	3.535	5.3	20.8	11 7	1 59.74	+ 6 36.6	1.819	2.786	5.4	20.0
11 17	1 54.04	+ 0 49.5	2.637	3.531	8.0	21.0	11 17	1 53.21	+ 5 44.7	1.872	2.789	9.3	20.2
11 27	1 49.04	+ 0 24.4	2.718	3.526	10.5	21.2	11 27	1 48.46	+ 5 8.2	1.950	2.793	12.6	20.4
356116	2009 <i>FJ</i> ₂₈		10 27.4 281°19	2°8/29.2	18		407619	2011 <i>CZ</i> ₁₅		10 27.5 286°36	5°7/21.9	17	
9 18	2 38.31	+19 28.1	1.901	2.678	16.2	21.1	9 18	2 30.90	- 2 30.2	2.292	3.112	12.5	21.4
9 28	2 33.93	+20 3.7	1.802	2.667	13.3	20.9	9 28	2 27.30	- 3 28.9	2.207	3.099	10.0	21.2
10 8	2 26.89	+20 28.4	1.725	2.656	9.7	20.6	10 8	2 21.85	- 4 27.5	2.146	3.085	7.6	21.0
10 18	2 17.66	+20 40.6	1.671	2.644	5.8	20.4	10 18	2 14.97	- 5 20.6	2.111	3.072	5.9	20.9
10 28	2 7.15	+20 40.3	1.645	2.633	2.9	20.2	10 28	2 7.36	- 6 2.4	2.103	3.059	6.1	20.9
11 7	1 56.55	+20 29.8	1.647	2.622	4.9	20.3	11 7	1 59.81	- 6 28.2	2.123	3.046	8.1	21.0
11 17	1 47.09	+20 13.5	1.677	2.611	8.9	20.5	11 17	1 53.11	- 6 35.2	2.169	3.032	10.8	21.2
11 27	1 39.78	+19 57.2	1.733	2.600	12.7	20.7	11 27	1 47.92	- 6 22.7	2.238	3.019	13.3	21.3
181	<i>Eucharis</i>		10 27.5 306°93	8°8/17.9	18		388201	2006 <i>DL</i> ₁₉₃		10 27.5 126°14	6°7/21.4	18	
9 18	2 29.04	- 9 6.5	2.073	2.899	13.4	12.5	9 18	2 34.16	- 3 27.0	2.022	2.842	13.9	21.0
9 28	2 26.13	-10 46.0	1.994	2.878	11.3	12.3	9 28	2 29.88	- 4 47.0	1.963	2.853	11.2	20.8
10 8	2 21.19	-12 22.6	1.938	2.858	9.5	12.2	10 8	2 23.55	- 6 5.4	1.927	2.863	8.5	20.7
10 18	2 14.69	-13 47.9	1.907	2.838	8.8	12.1	10 18	2 15.76	- 7 15.4	1.917	2.873	6.8	20.6
10 28	2 7.34	-14 53.9	1.902	2.819	9.5	12.1	10 28	2 7.32	- 8 9.9	1.934	2.883	7.2	20.7
11 7	2 0.03	-15 34.4	1.922	2.799	11.4	12.2	11 7	1 59.16	- 8 44.0	1.979	2.892	9.2	20.8
11 17	1 53.63	-15 46.7	1.965	2.780	13.8	12.3	11 17	1 52.10	- 8 55.5	2.048	2.901	11.8	21.0
11 27	1 48.88	-15 31.0	2.028	2.761	16.1	12.5	11 27	1 46.82	- 8 44.4	2.140	2.909	14.2	21.2
96931	1999 <i>TR</i> ₁₂₉		10 27.5 294°36	0°8/28.0	18		436550	2011 <i>GA</i> ₇₉		10 27.5 196°66	0°4/27.7	18	
9 18	2 33.50	+16 57.3	1.721	2.523	16.7	20.0	9 18	2 36.91	+16 7.7	1.907	2.697	15.7	22.4
9 28	2 30.25	+16 48.1	1.627	2.511	13.4	19.7	9 28	2 32.54	+15 52.0	1.818	2.695	12.6	22.2
10 8	2 24.38	+16 24.7	1.554	2.499	9.5	19.5	10 8	2 25.71	+15 23.6	1.751	2.693	8.8	22.0
10 18	2 16.40	+15 48.3	1.505	2.487	5.0	19.2	10 18	2 16.98	+14 44.2	1.708	2.690	4.5	21.7
10 28	2 7.24	+15 2.2	1.482	2.475	0.8	18.9	10 28	2 7.25	+13 57.1	1.693	2.687	0.4	21.4
11 7	1 58.09	+14 12.0	1.486	2.463	5.0	19.1	11 7	1 57.64	+13 7.9	1.707	2.683	4.7	21.7
11 17	1 50.13	+13 24.4	1.518	2.452	9.6	19.4	11 17	1 49.20	+12 22.3	1.750	2.678	9.0	22.0
11 27	1 44.35	+12 46.1	1.573	2.440	13.8	19.6	11 27	1 42.82	+11 46.1	1.817	2.673	12.8	22.2
66208	1999 <i>CQ</i> ₆		10 27.5 154°51	3°3/29.8	18		3283	<i>Skorina</i>		10 27.5 36°39	3°6/29.5	18	
9 18	2 41.05	+22 41.6	1.736	2.504	17.9	20.5	9 18	2 38.00	+20 36.3	1.393	2.192	20.1	16.1
9 28	2 36.11	+22 52.7	1.655	2.511	14.7	20.3	9 28	2 34.35	+21 12.2	1.322	2.199	16.4	15.9
10 8	2 28.31	+22 46.6	1.593	2.518	10.8	20.1	10 8	2 27.46	+21 31.8	1.270	2.206	12.0	15.7
10 18	2 18.29	+22 22.4	1.555	2.525	6.6	19.9	10 18	2 17.99	+21 33.1	1.239	2.213	7.3	15.4
10 28	2 7.14	+21 41.4	1.544	2.530	3.4	19.7	10 28	2 7.19	+21 17.1	1.233	2.221	3.7	15.2
11 7	1 56.21	+20 48.7	1.561	2.535	5.2	19.8	11 7	1 56.64	+20 48.3	1.253	2.229	5.8	15.4
11 17	1 46.77	+19 51.5	1.606	2.540	9.2	20.1	11 17	1 47.81	+20 13.7	1.299	2.238	10.4	15.7
11 27	1 39.77	+18 57.9	1.676	2.543	13.1	20.3	11 27	1 41.78	+19 41.6	1.367	2.247	14.6	16.0
12282	<i>Crombecq</i>		10 27.5 165°61	2°8/24.5	18		46791	1998 <i>HW</i> ₁₄₉		10 27.5 161°04	0°8/28.0	18	R
9 18	2 33.59	+ 6 6.4	2.576	3.378	11.8	18.4	9 18	2 39.93	+16 7.7	1.738	2.529	17.0	18.8
9 28	2 29.05	+ 5 15.3	2.497	3.383	9.2	18.2	9 28	2 35.12	+16 10.2	1.657	2.534	13.6	18.6
10 8	2 22.82	+ 4 19.6	2.441	3.389	6.3	18.1	10 8	2 27.58	+16 0.5	1.596	2.538	9.5	18.4
10 18	2 15.36	+ 3 23.1	2.414	3.393	3.6	17.9	10 18	2 17.93	+15 39.5	1.560	2.541	5.0	18.1
10 28	2 7.33	+ 2 30.2	2.416	3.397	3.1	17.9	10 28	2 7.20	+15 9.8	1.551	2.544	0.8	17.8
11 7	1 59.45	+ 1 45.4	2.448	3.400	5.4	18.0	11 7	1 56.65	+14 36.4	1.571	2.547	4.9	18.1
11 17	1 52.42	+ 1 12.3	2.509	3.403	8.3	18.2	11 17	1 47.48	+14 4.9	1.618	2.549	9.4	18.4
11 27	1 46.82	+ 0 53.0	2.596	3.405	10.9	18.4	11 27	1 40.63	+13 40.9	1.691	2.551	13.4	18.6
288739	2004 <i>RM</i> ₅₅		10 27.5 60°38	2°3/25.2	18		41766	2000 <i>VB</i> ₃₆		10 27.5 341°95	11°9/20.8	18	
9 18	2 30.23	+10 6.4	2.064	2.878	13.9	20.6	9 18	2 32.12	-10 0.9	1.215	2.068	19.3	17.5
9 28	2 26.88	+ 9 5.4	1.990	2.885	10.8	20.4	9 28	2 29.93	-11 10.5	1.151	2.053	16.4	17.2
10 8	2 21.56	+ 7 55.4	1.939	2.891	7.3	20.2	10 8	2 24.54	-12 10.8	1.105	2.039	13.6	17.0
10 18	2 14.79	+ 6 40.9	1.913	2.898	3.8	20.0	10 18	2 16.58	-12 50.2	1.079	2.026	12.0	16.9
10 28	2 7.36	+ 5 27.8	1.917	2.904	2.6	19.9	10 28	2 7.28	-12 57.9	1.075	2.015	12.5	16.9
11 7	2 0.13	+ 4 22.5	1.948	2.911	5.7	20.1	11 7	1 58.18	-12 27.9	1.092	2.006	14.9	17.0
11 17	1 53.91	+ 3 30.1	2.008	2.918	9.2	20.4	11 17	1 50.71	-11 20.3	1.129	1.998	18.1	17.2
11 27	1 49.36	+ 2 54.3	2.092	2.925	12.3	20.6	11 27	1 45.96	- 9 39.8	1.185	1.991	21.3	17.4
134072	<i>Sharonhooven</i>		10 27.5 343°55	7°9/22.9	18		350492	1999 <i>VP</i> ₃₈		10 27.5 349°88	4°0/25.7	18	
9 18	2 36.87	- 8 4.2	1.769	2.589	15.6	18.4	9 18	2 29.82	+ 5 5.2	1.112	1.975	20.0	19.5
9 28	2 32.53	- 8 27.9	1.694	2.579	12.9	18.2	9 28	2 28.46	+ 5 3.1	1.041	1.961	16.0	19.2
10 8	2 25.69	- 8 44.0	1.640	2.571	10.1	18.0	10 8	2 23.77	+ 4 57.4	0.987	1.949	11.1	18.9
10 18	2 16.94	- 8 46.1	1.609	2.562	8.2	17.8	10 18	2 16.31	+ 4 52.8	0.953	1.939	6.1	18.6
10 28	2 7.23	- 8 28.6	1.605	2.555	8.2	17.8	10 28	2 7.31	+ 4 55.6	0.942	1.931	4.2	18.5
11 7	1 57.71	- 7 48.6	1.627	2.549	10.2	17.9	11 7	1 58.39	+ 5 11.2	0.955	1.925	8.5	18.7
11 17	1 49.43	- 6 46.1	1.674	2.543	13.1	18.1	11 17	1 51.14	+ 5 43.1	0.989	1.921	13.7	19.0
11 27	1 43.25	- 5 23.5	1.743	2.538	16.0	18.3	11 27	1 46.79	+ 6 32.6	1.043	1.919	18.4	19.3
214552	2006 <i>PG</i> ₁₆		10 27.5 72°15	1°9/26.2	17		209576	2004 <i>XN</i> ₈₂		10 27.5 271°63	1°2/28.4	18	</

EPHEMERIDES

10 27.5

10 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
15055	1998 YS ₉	10 27.5 249°15	1°2/26.2	17			289629	2005 GR ₆₁	10 27.5 113°43	0°5/27.1	18		
9 18	2 30.81	+10 58.0	2.648	3.445	11.6	19.4	9 18	2 33.82	+14 13.4	1.935	2.736	15.1	21.0
9 28	2 27.02	+10 28.9	2.550	3.434	9.1	19.2	9 28	2 29.94	+13 46.4	1.856	2.741	12.0	20.8
10 8	2 21.55	+9 52.8	2.476	3.424	6.2	19.0	10 8	2 23.82	+13 8.2	1.798	2.745	8.2	20.5
10 18	2 14.81	+9 12.1	2.429	3.413	3.1	18.8	10 18	2 16.01	+12 21.2	1.766	2.750	4.0	20.3
10 28	2 7.41	+8 30.1	2.411	3.402	1.4	18.7	10 28	2 7.37	+11 29.9	1.761	2.755	0.6	20.0
11 7	2 0.05	+7 50.9	2.423	3.391	4.2	18.9	11 7	1 58.93	+10 39.8	1.785	2.759	4.8	20.4
11 17	1 53.42	+7 18.1	2.464	3.380	7.4	19.0	11 17	1 51.63	+9 56.4	1.837	2.763	8.8	20.6
11 27	1 48.14	+6 55.0	2.531	3.368	10.3	19.2	11 27	1 46.22	+9 24.4	1.914	2.767	12.4	20.9
45403	2000 AL ₁₄₁	10 27.5 237°03	5°0/	1.1	18		352174	2007 RH ₉₀	10 27.5 326°14	2°6/25.5	18		
9 18	2 35.03	+29 51.3	2.173	2.902	15.8	17.9	9 18	2 29.16	+10 48.4	1.487	2.323	17.3	20.7
9 28	2 31.11	+30 1.8	2.071	2.893	13.4	17.7	9 28	2 27.13	+9 58.3	1.401	2.308	13.7	20.4
10 8	2 24.79	+29 53.6	1.989	2.885	10.6	17.5	10 8	2 22.41	+8 54.7	1.335	2.293	9.4	20.2
10 18	2 16.57	+29 24.6	1.929	2.876	7.6	17.3	10 18	2 15.50	+7 42.2	1.292	2.278	4.8	19.9
10 28	2 7.31	+28 34.9	1.896	2.866	5.3	17.1	10 28	2 7.39	+6 28.5	1.275	2.265	2.9	19.7
11 7	1 58.09	+27 28.0	1.892	2.856	5.6	17.1	11 7	1 59.33	+5 22.2	1.283	2.252	7.1	19.9
11 17	1 49.96	+26 10.2	1.915	2.847	8.2	17.3	11 17	1 52.53	+4 31.4	1.317	2.239	11.9	20.2
11 27	1 43.80	+24 49.7	1.965	2.836	11.3	17.4	11 27	1 47.99	+4 1.5	1.372	2.228	16.1	20.4
216744	2005 MN ₁₆	10 27.5 193°85	1°4/25.9	18			324391	2006 SD ₂₁	10 27.5 103°78	2°0/28.7	18		
9 18	2 32.08	+13 22.5	2.246	3.043	13.4	20.9	9 18	2 38.91	+18 41.0	1.494	2.291	19.0	20.8
9 28	2 28.25	+12 16.1	2.157	3.042	10.5	20.7	9 28	2 34.79	+18 51.6	1.419	2.298	15.3	20.6
10 8	2 22.50	+10 57.8	2.092	3.040	7.2	20.4	10 8	2 27.62	+18 46.6	1.364	2.304	11.0	20.4
10 18	2 15.30	+9 31.4	2.053	3.038	3.5	20.2	10 18	2 18.05	+18 25.9	1.331	2.310	6.1	20.1
10 28	2 7.39	+8 2.5	2.044	3.035	1.7	20.1	10 28	2 7.26	+17 52.0	1.324	2.316	2.1	19.9
11 7	1 59.63	+6 38.0	2.065	3.032	5.0	20.3	11 7	1 56.72	+17 10.6	1.344	2.321	5.3	20.1
11 17	1 52.81	+5 23.8	2.116	3.029	8.6	20.5	11 17	1 47.78	+16 28.7	1.391	2.327	10.1	20.4
11 27	1 47.61	+4 24.8	2.192	3.025	11.8	20.7	11 27	1 41.47	+15 53.8	1.461	2.333	14.4	20.7
73853	1996 VV ₁₈	10 27.5 119°77	0°1/27.6	18			212889	2007 VK ₂₈₆	10 27.5 34°97	0°2/27.6	18		
9 18	2 39.13	+15 11.0	1.605	2.406	17.7	19.9	9 18	2 34.41	+14 47.8	1.651	2.460	17.0	20.9
9 28	2 34.56	+14 58.6	1.533	2.417	14.1	19.6	9 28	2 30.82	+14 42.8	1.578	2.467	13.5	20.7
10 8	2 27.20	+14 33.2	1.482	2.428	9.8	19.4	10 8	2 24.63	+14 26.0	1.526	2.474	9.3	20.5
10 18	2 17.73	+13 56.7	1.455	2.438	4.9	19.2	10 18	2 16.47	+13 59.2	1.498	2.482	4.7	20.3
10 28	2 7.25	+13 13.3	1.455	2.449	0.3	18.8	10 28	2 7.35	+13 26.1	1.496	2.490	0.3	19.9
11 7	1 57.10	+12 29.2	1.483	2.458	5.3	19.2	11 7	1 58.47	+12 52.1	1.522	2.498	5.0	20.3
11 17	1 48.45	+11 50.6	1.538	2.467	9.9	19.5	11 17	1 50.93	+12 22.6	1.574	2.507	9.5	20.6
11 27	1 42.22	+11 23.1	1.617	2.476	13.9	19.8	11 27	1 45.61	+12 2.9	1.650	2.516	13.4	20.9
252717	2002 CK ₁₉₄	10 27.5 323°63	0°3/27.7	18			467088	2016 EH ₆	10 27.5 324°84	15°8/11.9	17		
9 18	2 32.43	+15 20.7	1.945	2.746	15.1	21.0	9 18	2 25.00	-4 42.3	0.905	1.791	21.4	19.6
9 28	2 29.00	+15 11.9	1.856	2.739	12.0	20.8	9 28	2 25.12	-9 10.5	0.856	1.779	18.1	19.4
10 8	2 23.29	+14 52.1	1.788	2.733	8.4	20.5	10 8	2 21.68	-13 46.3	0.828	1.768	16.0	19.2
10 18	2 15.80	+14 22.5	1.744	2.727	4.3	20.3	10 18	2 15.32	-18 0.9	0.822	1.758	16.3	19.2
10 28	2 7.37	+13 46.4	1.728	2.721	0.3	19.9	10 28	2 7.43	-21 25.5	0.837	1.749	18.8	19.3
11 7	1 59.01	+13 8.6	1.740	2.716	4.5	20.3	11 7	1 59.79	-23 42.6	0.871	1.740	22.3	19.5
11 17	1 51.70	+12 34.3	1.779	2.711	8.7	20.5	11 17	1 54.02	-24 48.5	0.920	1.733	25.8	19.7
11 27	1 46.28	+12 8.3	1.844	2.706	12.4	20.7	11 27	1 51.29	-24 49.6	0.980	1.726	28.7	19.9
320191	2007 GX ₅₈	10 27.5 203°57	2°2/29.4	18			337050	1996 VD ₁₆	10 27.5 142°80	1°4/26.4	18		
9 18	2 34.91	+20 43.2	2.482	3.243	13.3	21.4	9 18	2 37.65	+10 31.3	1.983	2.784	14.9	20.9
9 28	2 30.46	+20 55.9	2.387	3.241	10.8	21.2	9 28	2 32.83	+10 13.6	1.906	2.791	11.7	20.7
10 8	2 24.04	+20 57.5	2.313	3.239	7.9	21.0	10 8	2 25.74	+9 48.4	1.851	2.799	8.0	20.5
10 18	2 16.10	+20 47.9	2.265	3.236	4.7	20.8	10 18	2 16.96	+9 18.3	1.822	2.806	3.9	20.3
10 28	2 7.35	+20 28.2	2.245	3.233	2.3	20.7	10 28	2 7.35	+8 47.3	1.821	2.813	1.5	20.1
11 7	1 58.66	+20 1.1	2.256	3.230	3.8	20.8	11 7	1 57.97	+8 19.9	1.849	2.819	5.1	20.4
11 17	1 50.84	+19 30.6	2.295	3.227	7.0	21.0	11 17	1 49.75	+8 0.3	1.906	2.825	9.0	20.7
11 27	1 44.62	+19 1.3	2.362	3.223	10.0	21.2	11 27	1 43.46	+7 51.7	1.988	2.830	12.4	20.9
170558	2003 WY ₁₄₇	10 27.5 291°39	3°4/24.7	18			518762	2009 UK ₁₀₀	10 27.5 32°22	3°3/24.9	18		
9 18	2 31.84	+7 38.4	1.791	2.615	15.3	20.5	9 18	2 33.96	+3 46.2	2.149	2.962	13.4	21.0
9 28	2 28.77	+6 45.1	1.696	2.595	12.1	20.2	9 28	2 29.73	+3 26.2	2.073	2.966	10.5	20.8
10 8	2 23.29	+5 42.4	1.622	2.576	8.4	20.0	10 8	2 23.52	+3 4.3	2.021	2.970	7.3	20.6
10 18	2 15.87	+4 35.0	1.573	2.556	4.7	19.7	10 18	2 15.82	+2 43.8	1.994	2.974	4.3	20.4
10 28	2 7.37	+3 29.8	1.551	2.536	3.8	19.6	10 28	2 7.42	+2 28.8	1.996	2.978	3.5	20.4
11 7	1 58.84	+2 34.0	1.557	2.516	7.2	19.8	11 7	1 59.19	+2 22.8	2.026	2.982	6.1	20.6
11 17	1 51.37	+1 53.7	1.588	2.497	11.3	20.0	11 17	1 51.96	+2 28.4	2.083	2.986	9.3	20.8
11 27	1 45.86	+1 33.2	1.643	2.477	15.0	20.2	11 27	1 46.41	+2 46.9	2.166	2.991	12.2	21.0
391626	2007 VJ ₁₀₉	10 27.5 1°32	0°3/27.7	18			469706	2005 GR ₉₆	10 27.5 93°04	0°6/27.1	16		
9 18	2 32.66	+16 1.6	1.703	2.510	16.6	21.2	9 18	2 40.93	+13 11.8	1.564	2.369	18.0	22.4
9 28	2 29.45	+15 43.9	1.622	2.509	13.3	21.0	9 28	2 35.83	+12 56.9	1.505	2.391	14.1	22.2
10 8	2 23.72	+15 12.5	1.562	2.509	9.2	20.8	10 8	2 27.95	+12 30.9	1.466	2.413	9.7	22.0
10 18	2 16.04	+14 29.4	1.526	2.509	4.7	20.5	10 18	2 18.05	+11 56.3	1.450	2.435	4.7	21.7
10 28	2 7.36	+13 38.8	1.516	2.510	0.3	20.2	10 28	2 7.31	+11 17.9	1.463	2.456	0.8	21.5
11 7	1 58.85	+12 46.9	1.534	2.510	5.0	20.5	11 7	1 57.04	+10 41.5	1.503	2.476	5.5	21.9
11 17	1 51.58	+12 0.1	1.578	2.511	9.4	20.8	11 17	1 48.40	+10 12.7	1.570	2.497	10.0	22.2
11 27	1 46.45	+11 24.3	1.647	2.512	13.4	21.1	11 27	1 42.22	+9 56.0	1.661	2.516	13.9	22.5
128034	2003 KB ₁₈	10 27.5 90°88	4°7/23.2	18			177187	2003 TQ ₁₈	10 27.5 349°13	0°1/27.4	18		
9 18	2 32.27	+0 49.8	2.171	2.990	13.1	19.							

EPHEMERIDES

10 27.5

10 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
12318	Kästner		10 27.5 181°13	4.3/22.5	18		395977	2013 BU ₂₂		10 27.5 124°37	5.2/22.9	18	
9 18	2 31.65	- 0 35.1	2.819	3.627	10.7	19.1	9 18	2 34.76	- 0 46.5	2.201	3.015	13.2	20.8
9 28	2 27.43	- 1 32.9	2.742	3.627	8.5	19.0	9 28	2 30.21	- 1 40.7	2.137	3.026	10.4	20.6
10 8	2 21.70	- 2 31.3	2.688	3.628	6.2	18.8	10 8	2 23.76	- 2 34.7	2.096	3.037	7.6	20.5
10 18	2 14.86	- 3 26.0	2.663	3.628	4.6	18.7	10 18	2 15.93	- 3 23.3	2.081	3.048	5.5	20.4
10 28	2 7.50	- 4 12.4	2.667	3.627	4.7	18.7	10 28	2 7.49	- 4 1.1	2.095	3.059	5.5	20.4
11 7	2 0.26	- 4 46.9	2.700	3.626	6.4	18.8	11 7	1 59.31	- 4 23.9	2.137	3.069	7.6	20.5
11 17	1 53.74	- 5 6.9	2.761	3.625	8.7	19.0	11 17	1 52.15	- 4 29.5	2.206	3.078	10.2	20.7
11 27	1 48.49	- 5 11.3	2.847	3.623	10.9	19.1	11 27	1 46.64	- 4 17.3	2.299	3.088	12.8	20.9
110118	2001 SO ₁₃₈		10 27.5 172°53	0.9/28.3	18		35874	1999 JU ₇₂		10 27.5 126°63	3.3/25.4	18	
9 18	2 34.16	+17 57.3	2.356	3.132	13.5	20.6	9 18	2 39.11	+ 7 21.5	1.528	2.349	17.6	18.9
9 28	2 29.87	+17 42.0	2.267	3.134	10.8	20.4	9 28	2 34.60	+ 6 44.9	1.461	2.357	13.8	18.7
10 8	2 23.63	+17 15.2	2.199	3.136	7.6	20.2	10 8	2 27.28	+ 6 1.0	1.413	2.366	9.5	18.4
10 18	2 15.91	+16 38.2	2.158	3.138	4.0	20.0	10 18	2 17.83	+ 5 14.7	1.390	2.374	5.1	18.2
10 28	2 7.45	+15 53.6	2.146	3.139	0.9	19.8	10 28	2 7.39	+ 4 32.5	1.394	2.381	3.6	18.1
11 7	1 59.12	+15 5.8	2.164	3.140	3.8	20.0	11 7	1 57.28	+ 4 0.7	1.425	2.389	7.2	18.4
11 17	1 51.73	+14 19.4	2.210	3.140	7.3	20.2	11 17	1 48.70	+ 3 44.2	1.482	2.396	11.5	18.7
11 27	1 45.97	+13 39.4	2.284	3.140	10.5	20.4	11 27	1 42.55	+ 3 45.7	1.562	2.402	15.4	18.9
434025	2001 SQ ₁₄₂		10 27.5 53°16	3.3/29.7	18		171102	2005 EZ ₂₆₈		10 27.5 303°52	0.9/26.8	18	
9 18	2 36.46	+21 58.2	1.443	2.238	19.7	20.6	9 18	2 34.18	+12 14.7	1.815	2.625	15.7	20.1
9 28	2 32.95	+22 9.9	1.375	2.248	16.1	20.4	9 28	2 30.52	+11 57.6	1.730	2.620	12.4	19.9
10 8	2 26.38	+22 2.6	1.325	2.260	11.7	20.2	10 8	2 24.43	+11 30.8	1.666	2.616	8.5	19.7
10 18	2 17.44	+21 35.6	1.297	2.271	7.0	20.0	10 18	2 16.45	+10 56.6	1.627	2.612	4.2	19.4
10 28	2 7.37	+20 51.3	1.294	2.283	3.4	19.8	10 28	2 7.47	+10 19.2	1.615	2.608	1.1	19.2
11 7	1 57.63	+19 56.1	1.318	2.295	5.5	19.9	11 7	1 58.61	+ 9 44.0	1.631	2.604	5.3	19.5
11 17	1 49.55	+18 58.2	1.367	2.307	9.9	20.2	11 17	1 50.90	+ 9 16.1	1.674	2.600	9.5	19.7
11 27	1 44.11	+18 6.2	1.440	2.320	14.1	20.5	11 27	1 45.20	+ 8 59.8	1.741	2.596	13.3	19.9
138057	2000 DQ ₃₈		10 27.5 287°00	7.3/ 1.9	18		108824	2001 OG ₇₉		10 27.5 93°32	3.0/25.5	18	
9 18	2 38.48	+31 56.5	1.946	2.667	17.7	20.2	9 18	2 37.49	+ 7 59.5	1.576	2.397	17.2	20.0
9 28	2 34.37	+32 56.2	1.852	2.663	15.3	20.0	9 28	2 33.17	+ 7 21.5	1.513	2.410	13.4	19.8
10 8	2 27.40	+33 37.9	1.777	2.658	12.5	19.8	10 8	2 26.20	+ 6 36.0	1.470	2.423	9.2	19.6
10 18	2 18.06	+33 57.0	1.724	2.653	9.7	19.6	10 18	2 17.26	+ 5 47.8	1.452	2.435	4.8	19.4
10 28	2 7.33	+33 51.0	1.696	2.648	7.6	19.5	10 28	2 7.45	+ 5 3.1	1.460	2.448	3.3	19.3
11 7	1 56.56	+33 21.1	1.694	2.644	7.6	19.5	11 7	1 57.99	+ 4 28.3	1.496	2.460	6.8	19.5
11 17	1 47.05	+32 32.4	1.718	2.639	9.7	19.6	11 17	1 50.02	+ 4 8.0	1.558	2.472	11.0	19.8
11 27	1 39.91	+31 33.5	1.768	2.635	12.5	19.8	11 27	1 44.34	+ 4 4.9	1.644	2.484	14.7	20.1
360712	2004 TL ₉₃		10 27.5 51°48	0.8/28.1	15		49855	1999 XV ₉₈		10 27.5 183°17	1.2/28.5	18	
9 18	2 35.76	+16 17.2	1.839	2.634	16.1	20.4	9 18	2 38.38	+18 31.1	2.043	2.819	15.3	19.7
9 28	2 31.41	+16 16.4	1.780	2.659	12.7	20.2	9 28	2 33.57	+18 19.0	1.953	2.820	12.3	19.5
10 8	2 24.75	+16 4.2	1.742	2.685	8.8	20.0	10 8	2 26.39	+17 53.5	1.884	2.820	8.7	19.3
10 18	2 16.44	+15 41.8	1.729	2.711	4.6	19.9	10 18	2 17.39	+17 15.4	1.841	2.819	4.7	19.1
10 28	2 7.44	+15 12.4	1.744	2.737	0.8	19.6	10 28	2 7.44	+16 27.5	1.826	2.818	1.2	18.8
11 7	1 58.81	+14 40.9	1.787	2.763	4.4	20.0	11 7	1 57.62	+15 34.8	1.840	2.816	4.3	19.1
11 17	1 51.51	+14 11.9	1.857	2.789	8.3	20.2	11 17	1 48.95	+14 43.2	1.884	2.813	8.4	19.3
11 27	1 46.23	+13 50.2	1.953	2.816	11.7	20.5	11 27	1 42.25	+13 58.6	1.953	2.810	12.0	19.5
394981	2009 BF ₄		10 27.5 208°69	0.6/28.0	18		180290	2003 WH ₁₀₉		10 27.5 257°87	0.3/27.3	18	
9 18	2 34.13	+17 33.6	2.234	3.015	14.0	21.4	9 18	2 38.71	+12 54.9	1.500	2.313	18.3	20.4
9 28	2 30.02	+17 7.1	2.139	3.011	11.2	21.2	9 28	2 34.72	+12 56.3	1.417	2.308	14.6	20.2
10 8	2 23.83	+16 27.9	2.066	3.005	7.8	21.0	10 8	2 27.69	+12 47.0	1.354	2.303	10.1	19.9
10 18	2 16.06	+15 37.6	2.019	3.000	4.1	20.8	10 18	2 18.21	+12 28.7	1.314	2.298	5.1	19.6
10 28	2 7.46	+14 39.4	2.000	2.994	0.6	20.5	10 28	2 7.39	+12 4.9	1.300	2.293	0.5	19.3
11 7	1 58.95	+13 38.6	2.011	2.987	4.1	20.8	11 7	1 56.65	+11 40.8	1.313	2.288	5.8	19.6
11 17	1 51.40	+12 40.8	2.052	2.980	7.9	21.0	11 17	1 47.39	+11 22.3	1.352	2.283	10.9	19.9
11 27	1 45.56	+11 51.4	2.118	2.972	11.3	21.2	11 27	1 40.68	+11 14.5	1.414	2.277	15.3	20.2
407199	2009 UW ₁₃₆		10 27.5 330°83	2.2/25.7	17		66010	1998 QO ₁₅		10 27.5 338°70	4.3/31.2	18	
9 18	2 28.54	+10 10.0	1.791	2.617	15.2	20.5	9 18	2 31.28	+26 23.3	1.957	2.719	16.3	18.9
9 28	2 26.18	+ 9 32.5	1.698	2.599	12.0	20.2	9 28	2 28.36	+26 36.9	1.864	2.712	13.6	18.7
10 8	2 21.52	+ 8 45.0	1.627	2.582	8.2	20.0	10 8	2 23.03	+26 32.8	1.790	2.705	10.5	18.5
10 18	2 15.02	+ 7 51.1	1.580	2.566	4.2	19.7	10 18	2 15.79	+26 9.4	1.739	2.698	7.1	18.3
10 28	2 7.52	+ 6 56.5	1.560	2.550	2.4	19.6	10 28	2 7.52	+25 27.7	1.714	2.693	4.5	18.1
11 7	2 0.03	+ 6 7.6	1.567	2.535	6.1	19.8	11 7	1 59.29	+24 31.6	1.716	2.687	5.2	18.2
11 17	1 53.56	+ 5 30.4	1.600	2.521	10.3	20.0	11 17	1 52.18	+23 27.4	1.745	2.682	8.3	18.3
11 27	1 48.98	+ 5 9.2	1.656	2.507	14.1	20.2	11 27	1 47.06	+22 23.0	1.800	2.678	11.8	18.5
243687	1999 XU ₁₄₆		10 27.5 347°17	5.1/24.3	18		278301	2007 GZ ₇₆		10 27.5 265°16	4.1/24.3	18	
9 18	2 37.50	+ 0 34.3	1.742	2.564	15.7	20.4	9 18	2 33.55	+ 6 23.4	1.657	2.484	16.2	20.4
9 28	2 33.06	+ 0 8.1	1.668	2.563	12.5	20.2	9 28	2 30.19	+ 5 22.2	1.576	2.477	12.7	20.2
10 8	2 26.10	- 0 18.1	1.615	2.562	9.0	20.0	10 8	2 24.29	+ 4 12.6	1.517	2.471	8.8	20.0
10 18	2 17.23	- 0 39.3	1.587	2.561	5.9	19.8	10 18	2 16.41	+ 3 0.5	1.482	2.464	5.2	19.7
10 28	2 7.41	- 0 50.0	1.585	2.561	5.4	19.8	10 28	2 7.49	+ 1 53.6	1.474	2.457	4.5	19.7
11 7	1 57.80	- 0 45.9	1.611	2.560	8.1	19.9	11 7	1 58.71	+ 0 59.5	1.494	2.449	7.8	19.9
11 17	1 49.45	- 0 24.9	1.663	2.560	11.6	20.2	11 17	1 51.16	+ 0 24.1	1.538	2.442	11.9	20.1
11 27	1 43.23	+ 0 13.2	1.739	2.560	14.9	20.4	11 27	1 45.73	+ 0 10.5	1.606	2.435	15.5	20.3
196803	2003 SG ₂₀₆		10 27.5 305°05	1.3/28.7	18		277158	2005 MH ₃₉		10 27.5 30°63	4.5/30.2	18	
9 18	2 30.27	+19 56.5	2.200										

EPHEMERIDES

10 27.5

10 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
133543	2003 TY ₁₄	10 27.5 343°71			0°8/26.8 18		327145	2005 GB ₉	10 27.5 57°20			2°6/26.0 17	
9 18	2 28.37	+14 35.5	1.902	2.714	15.0	19.2	9 18	2 37.90	+9 42.0	1.252	2.086	20.0	20.2
9 28	2 25.84	+13 51.5	1.815	2.707	11.8	19.0	9 28	2 34.03	+9 10.5	1.201	2.105	15.6	20.0
10 8	2 21.15	+12 54.2	1.750	2.701	8.1	18.7	10 8	2 27.03	+8 29.0	1.168	2.124	10.6	19.7
10 18	2 14.79	+11 46.9	1.710	2.695	4.0	18.5	10 18	2 17.72	+7 42.6	1.158	2.144	5.3	19.5
10 28	2 7.58	+10 34.8	1.697	2.690	1.0	18.2	10 28	2 7.46	+6 58.4	1.173	2.164	2.8	19.4
11 7	2 0.49	+9 24.9	1.712	2.686	5.0	18.5	11 7	1 57.76	+6 23.7	1.214	2.184	7.2	19.7
11 17	1 54.41	+8 23.5	1.755	2.682	9.1	18.8	11 17	1 49.92	+6 3.9	1.280	2.204	12.0	20.1
11 27	1 50.14	+7 36.2	1.822	2.678	12.7	19.0	11 27	1 44.82	+6 2.3	1.367	2.225	16.1	20.4
317695	2003 OA ₃₃	10 27.5 21°70			4°1/25.3 18		243911	2001 FJ ₁₈₉	10 27.5 264°63			6°3/23.0 18	
9 18	2 31.34	+8 24.9	0.977	1.842	22.0	19.6	9 18	2 36.47	-2 38.6	1.871	2.690	14.9	19.9
9 28	2 29.72	+7 38.2	0.928	1.850	17.2	19.4	9 28	2 32.16	-3 23.2	1.791	2.682	12.0	19.7
10 8	2 24.54	+6 39.9	0.895	1.859	11.8	19.1	10 8	2 25.48	-4 6.5	1.732	2.673	9.0	19.5
10 18	2 16.64	+5 37.7	0.883	1.869	6.2	18.9	10 18	2 16.96	-4 42.4	1.699	2.664	6.7	19.4
10 28	2 7.49	+4 41.8	0.893	1.881	4.4	18.8	10 28	2 7.49	-5 4.6	1.693	2.655	6.7	19.4
11 7	1 58.87	+4 2.1	0.926	1.895	9.0	19.1	11 7	1 58.15	-5 8.4	1.713	2.646	9.1	19.5
11 17	1 52.26	+3 44.7	0.980	1.909	14.2	19.5	11 17	1 49.94	-4 51.5	1.760	2.636	12.2	19.7
11 27	1 48.69	+3 52.2	1.053	1.924	18.7	19.8	11 27	1 43.70	-4 14.0	1.829	2.627	15.2	19.8
310192	2011 SM ₁₁₅	10 27.5 62°00			1°4/26.4 18		404013	2012 CF ₁₂	10 27.5 100°09			0°9/26.7 18	
9 18	2 32.55	+12 48.7	1.800	2.612	15.7	20.6	9 18	2 33.16	+12 1.1	2.389	3.184	12.8	21.5
9 28	2 29.12	+12 4.8	1.724	2.617	12.3	20.4	9 28	2 28.91	+11 37.8	2.315	3.198	10.0	21.3
10 8	2 23.37	+11 9.3	1.670	2.621	8.4	20.2	10 8	2 22.86	+11 7.1	2.264	3.211	6.8	21.1
10 18	2 15.87	+10 5.7	1.641	2.626	4.1	19.9	10 18	2 15.51	+10 31.2	2.240	3.224	3.3	20.9
10 28	2 7.53	+8 59.9	1.639	2.631	1.6	19.8	10 28	2 7.57	+9 53.8	2.244	3.237	1.0	20.8
11 7	1 59.41	+7 58.6	1.665	2.636	5.5	20.1	11 7	1 59.83	+9 18.9	2.279	3.249	4.2	21.0
11 17	1 52.49	+7 7.9	1.719	2.641	9.6	20.3	11 17	1 53.02	+8 50.1	2.342	3.262	7.5	21.3
11 27	1 47.53	+6 32.6	1.796	2.646	13.2	20.6	11 27	1 47.75	+8 30.7	2.431	3.274	10.4	21.5
133386	2003 SV ₁₅₆	10 27.5 333°99			0°2/27.4 18		78457	2002 RZ ₃₁	10 27.5 330°46			1°5/28.5 18	
9 18	2 30.34	+14 30.8	1.974	2.780	14.7	20.1	9 18	2 31.16	+18 26.5	1.577	2.385	17.7	19.2
9 28	2 27.36	+14 12.9	1.883	2.771	11.7	19.9	9 28	2 28.72	+18 21.3	1.488	2.373	14.3	18.9
10 8	2 22.19	+13 44.1	1.814	2.762	8.1	19.7	10 8	2 23.55	+18 0.0	1.418	2.362	10.2	18.7
10 18	2 15.33	+13 6.3	1.770	2.754	4.0	19.4	10 18	2 16.16	+17 23.1	1.371	2.351	5.6	18.4
10 28	2 7.56	+12 23.1	1.753	2.746	0.3	19.1	10 28	2 7.53	+16 33.9	1.349	2.341	1.5	18.1
11 7	1 59.85	+11 39.8	1.764	2.739	4.6	19.4	11 7	1 58.93	+15 38.7	1.354	2.332	5.1	18.3
11 17	1 53.14	+11 1.5	1.802	2.732	8.7	19.7	11 17	1 51.60	+14 44.9	1.384	2.323	9.9	18.6
11 27	1 48.22	+10 33.1	1.866	2.726	12.3	19.9	11 27	1 46.57	+14 0.1	1.438	2.315	14.2	18.8
332934	2011 CP ₇₅	10 27.5 204°92			4°7/ 1.9 17		38388	1999 RG ₁₈₆	10 27.5 135°75			4°1/24.2 18	
9 18	2 32.62	+31 21.8	2.652	3.362	13.7	20.9	9 18	2 35.12	+4 19.9	1.902	2.720	14.7	19.5
9 28	2 28.73	+31 30.4	2.553	3.360	11.6	20.8	9 28	2 30.90	+3 27.0	1.832	2.727	11.6	19.3
10 8	2 22.91	+31 22.6	2.475	3.359	9.3	20.6	10 8	2 24.47	+2 29.6	1.784	2.733	8.1	19.1
10 18	2 15.61	+30 57.0	2.420	3.357	6.8	20.5	10 18	2 16.39	+1 33.1	1.761	2.739	4.9	18.9
10 28	2 7.55	+30 14.0	2.393	3.355	5.0	20.3	10 28	2 7.54	+0 43.7	1.766	2.745	4.5	18.9
11 7	1 59.58	+29 16.4	2.394	3.353	5.0	20.3	11 7	1 58.92	+0 7.0	1.800	2.750	7.2	19.1
11 17	1 52.50	+28 9.0	2.424	3.351	6.9	20.5	11 17	1 51.47	-0 13.2	1.860	2.756	10.6	19.3
11 27	1 47.02	+26 58.1	2.481	3.349	9.4	20.6	11 27	1 45.91	-0 15.1	1.943	2.760	13.7	19.5
415537	2014 QX ₁₂₀	10 27.5 355°37			4°7/30.6 16		443308	2014 FE ₃₅	10 27.5 79°50			4°0/23.9 18	
9 18	2 32.95	+23 30.7	1.673	2.457	17.9	20.9	9 18	2 33.29	+6 2.9	1.868	2.689	14.9	21.1
9 28	2 30.11	+24 20.7	1.589	2.451	14.9	20.7	9 28	2 29.36	+4 47.6	1.811	2.709	11.5	21.0
10 8	2 24.50	+24 55.8	1.523	2.447	11.3	20.5	10 8	2 23.30	+3 26.4	1.777	2.728	7.9	20.8
10 18	2 16.63	+25 13.5	1.479	2.443	7.6	20.2	10 18	2 15.75	+2 5.5	1.769	2.748	4.8	20.6
10 28	2 7.49	+25 12.9	1.461	2.441	4.9	20.1	10 28	2 7.57	+0 52.2	1.788	2.767	4.4	20.7
11 7	1 58.36	+24 56.6	1.468	2.440	5.9	20.1	11 7	1 59.75	-0 7.1	1.836	2.787	7.1	20.9
11 17	1 50.51	+24 29.8	1.502	2.440	9.4	20.3	11 17	1 53.13	-0 48.1	1.911	2.806	10.4	21.1
11 27	1 44.98	+23 59.8	1.559	2.441	13.0	20.6	11 27	1 48.36	-1 8.8	2.009	2.825	13.4	21.3
141627	2002 JM ₃₇	10 27.5 61°19			3°6/29.9 18 R		231108	2005 SR ₁₂₄	10 27.5 311°19			2°7/29.1 18	
9 18	2 38.77	+23 17.6	1.278	2.074	21.7	19.8	9 18	2 37.02	+19 7.2	1.503	2.303	18.8	20.6
9 28	2 34.94	+23 21.4	1.224	2.097	17.6	19.6	9 28	2 33.61	+19 34.9	1.416	2.294	15.4	20.3
10 8	2 27.77	+23 2.4	1.187	2.120	12.9	19.4	10 8	2 27.09	+19 48.4	1.347	2.286	11.2	20.0
10 18	2 18.12	+22 20.3	1.171	2.144	7.8	19.2	10 18	2 18.01	+19 46.5	1.301	2.278	6.5	19.8
10 28	2 7.43	+21 18.9	1.179	2.167	3.8	19.0	10 28	2 7.44	+19 29.8	1.280	2.270	2.8	19.5
11 7	1 57.33	+20 6.5	1.213	2.191	5.8	19.2	11 7	1 56.87	+19 2.6	1.285	2.263	5.5	19.7
11 17	1 49.23	+18 53.3	1.273	2.214	10.4	19.5	11 17	1 47.72	+18 31.3	1.317	2.255	10.3	19.9
11 27	1 44.06	+17 49.1	1.356	2.238	14.6	19.8	11 27	1 41.20	+18 3.3	1.371	2.249	14.8	20.2
335732	2007 DG ₅₀	10 27.5 244°53			0°8/26.9 18		220390	2003 QE ₆₉	10 27.5 50°90			6°6/ 1.7 18	
9 18	2 36.47	+12 54.1	1.751	2.557	16.3	21.7	9 18	2 41.53	+30 14.2	1.982	2.705	17.3	19.2
9 28	2 32.52	+12 34.6	1.660	2.548	13.0	21.5	9 28	2 36.34	+31 23.9	1.916	2.729	14.7	19.0
10 8	2 25.95	+12 4.0	1.589	2.538	9.0	21.2	10 8	2 28.44	+32 15.9	1.869	2.753	11.8	18.9
10 18	2 17.28	+11 24.6	1.543	2.528	4.4	20.9	10 18	2 18.46	+32 46.5	1.845	2.778	8.9	18.8
10 28	2 7.46	+10 40.6	1.525	2.518	1.0	20.7	10 28	2 7.46	+32 53.9	1.847	2.802	6.9	18.7
11 7	1 57.69	+9 57.9	1.534	2.507	5.5	21.0	11 7	1 56.70	+32 40.1	1.877	2.827	7.0	18.7
11 17	1 49.11	+9 22.4	1.570	2.496	10.1	21.2	11 17	1 47.37	+32 10.1	1.933	2.852	8.9	18.9
11 27	1 42.70	+8 59.4	1.631	2.485	14.1	21.4	11 27	1 40.38	+31 31.4	2.015	2.877	11.4	19.1
282624	2005 LN ₂₀	10 27.5 298°06			5°4/23.9 18		326299	1998 SN ₁₇₂	10 27.5 353°72			1°4/28.6 17	
9 18	2 35.00	+3 54.5	1.432	2.269	17.7	20.5	9 18	2 31.76	+18 6.6	1.897	2.693	15.6	21.0
9 28	2 31.70	+2 56.4	1.359	2.264	14.1	20.2	9 28	2					

EPHEMERIDES

10 27.5

10 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
517376	2014 <i>KV</i> ₅₇		10 27.5 223°26	5°9/22.4	18								
9 18	2 34.99	- 2 37.0	2.170	2.984	13.3	22.0							
9 28	2 30.63	- 3 32.4	2.089	2.977	10.7	21.8							
10 8	2 24.24	- 4 27.3	2.032	2.970	8.0	21.7							
10 18	2 16.30	- 5 16.0	2.000	2.962	6.1	21.5							
10 28	2 7.58	- 5 52.4	1.997	2.954	6.3	21.5							
11 7	1 58.97	- 6 12.1	2.021	2.946	8.4	21.7							
11 17	1 51.34	- 6 12.5	2.072	2.937	11.1	21.8							
11 27	1 45.38	- 5 53.1	2.145	2.928	13.8	22.0							
47248	1999 <i>VK</i> ₅₇		10 27.5 199°85	0°6/27.1	18								
9 18	2 38.92	+12 55.7	1.746	2.547	16.5	19.9							
9 28	2 34.40	+12 44.5	1.660	2.545	13.2	19.7							
10 8	2 27.21	+12 23.0	1.596	2.542	9.1	19.5							
10 18	2 17.91	+11 53.0	1.555	2.539	4.5	19.2							
10 28	2 7.50	+11 18.6	1.542	2.536	0.7	18.9							
11 7	1 57.20	+10 44.8	1.558	2.532	5.3	19.2							
11 17	1 48.18	+10 17.2	1.601	2.527	9.9	19.5							
11 27	1 41.41	+10 0.5	1.669	2.522	13.9	19.7							
76896	2000 <i>YA</i> ₁₀₅		10 27.5 189°77	1°4/26.5	18								
9 18	2 39.59	+10 53.1	1.935	2.732	15.3	19.9							
9 28	2 34.50	+10 34.3	1.848	2.731	12.1	19.6							
10 8	2 27.15	+10 7.2	1.783	2.730	8.3	19.4							
10 18	2 17.82	+9 34.2	1.744	2.728	4.1	19.2							
10 28	2 7.50	+8 59.4	1.733	2.725	1.5	19.0							
11 7	1 57.31	+8 27.8	1.751	2.721	5.4	19.2							
11 17	1 48.30	+8 4.0	1.798	2.717	9.5	19.5							
11 27	1 41.32	+7 51.9	1.870	2.712	13.1	19.7							
476812	2008 <i>UN</i> ₁₉₆		10 27.5 72°13	1°2/26.5	16								
9 18	2 33.86	+13 56.0	1.618	2.432	17.1	21.6							
9 28	2 30.34	+13 5.5	1.552	2.445	13.4	21.4							
10 8	2 24.28	+12 1.2	1.507	2.458	9.1	21.2							
10 18	2 16.35	+10 47.5	1.485	2.471	4.4	20.9							
10 28	2 7.59	+9 31.0	1.491	2.484	1.5	20.7							
11 7	1 59.16	+8 19.7	1.525	2.496	5.7	21.1							
11 17	1 52.12	+7 20.7	1.585	2.509	10.1	21.3							
11 27	1 47.26	+6 39.0	1.669	2.522	13.9	21.6							
101092	1998 <i>RE</i> ₃₅		10 27.5 13°75	2°1/26.4	18								
9 18	2 30.28	+11 11.8	1.029	1.888	21.6	19.2							
9 28	2 28.87	+10 48.5	0.974	1.893	17.0	18.9							
10 8	2 24.01	+10 11.5	0.936	1.899	11.6	18.7							
10 18	2 16.44	+9 25.8	0.919	1.906	5.7	18.4							
10 28	2 7.58	+8 39.3	0.923	1.915	2.3	18.2							
11 7	1 59.13	+8 1.0	0.951	1.926	7.5	18.6							
11 17	1 52.59	+7 38.1	1.001	1.938	13.0	18.9							
11 27	1 49.00	+7 35.1	1.071	1.951	17.7	19.2							
237584	2001 <i>FL</i> ₁₅		10 27.5 113°87	3°0/29.9	18								
9 18	2 40.55	+22 28.2	2.249	2.998	14.8	20.7							
9 28	2 34.98	+22 50.5	2.173	3.017	12.1	20.5							
10 8	2 27.19	+22 59.8	2.118	3.036	8.9	20.3							
10 18	2 17.74	+22 55.4	2.089	3.055	5.6	20.2							
10 28	2 7.52	+22 38.0	2.089	3.073	3.1	20.0							
11 7	1 57.54	+22 10.9	2.118	3.090	4.3	20.2							
11 17	1 48.73	+21 38.4	2.177	3.107	7.4	20.4							
11 27	1 41.82	+21 6.2	2.263	3.123	10.4	20.6							
48689	1996 <i>GP</i> ₁		10 27.5 323°98	8°5/1.3	18								
9 18	2 45.17	+31 10.7	1.856	2.573	18.5	18.0							
9 28	2 40.09	+32 52.5	1.764	2.569	16.1	17.9							
10 8	2 31.69	+34 19.6	1.691	2.566	13.3	17.7							
10 18	2 20.44	+35 25.3	1.641	2.563	10.5	17.5							
10 28	2 7.38	+36 4.1	1.616	2.560	8.7	17.4							
11 7	1 54.07	+36 14.7	1.618	2.558	8.9	17.4							
11 17	1 42.11	+36 0.9	1.646	2.555	10.9	17.5							
11 27	1 32.85	+35 30.8	1.699	2.553	13.6	17.7							
234667	2002 <i>FW</i> ₂₈		10 27.5 42°06	2°1/26.6	18								
9 18	2 41.31	+7 12.2	1.364	2.189	19.1	18.5							
9 28	2 36.55	+7 28.9	1.309	2.207	15.0	18.3							
10 8	2 28.71	+7 41.3	1.273	2.226	10.3	18.1							
10 18	2 18.60	+7 51.8	1.261	2.245	5.2	17.9							
10 28	2 7.50	+8 3.8	1.274	2.266	2.2	17.8							
11 7	1 56.91	+8 20.5	1.315	2.286	6.4	18.1							
11 17	1 48.11	+8 44.8	1.381	2.307	11.1	18.4							
11 27	1 42.01	+9 18.5	1.470	2.329	15.1	18.7							
157018	2003 <i>QD</i> ₅₆		10 27.5 90°73	3°3/30.4	18								
9 18	2 36.24	+23 27.1	2.352	3.103	14.2	19.9							
9 28	2 31.67	+23 54.5	2.267	3.111	11.7	19.8							
10 8	2 24.99	+24 9.3	2.203	3.119	8.7	19.6							
10 18	2 16.70	+24 10.6	2.164	3.126	5.7	19.4							
10 28	2 7.59	+23 58.8	2.153	3.134	3.4	19.3							
11 7	1 58.59	+23 36.5	2.171	3.142	4.4	19.4							
11 17	1 50.59	+23 7.7	2.218	3.149	7.2	19.5							
11 27	1 44.32	+22 37.5	2.291	3.156	10.1	19.7							
227022	2004 <i>XG</i> ₁₇₇		10 27.5 155°49	0°3/27.3	18								
9 18	2 32.17	+13 44.4	2.417	3.209	12.8	20.9							
9 28	2 28.27	+13 29.0	2.330	3.210	10.1	20.7							
10 8	2 22.55	+13 5.2	2.265	3.210	6.9	20.5							
10 18	2 15.45	+12 34.8	2.227	3.211	3.4	20.3							
10 28	2 7.66	+12 0.9	2.218	3.211	0.4	20.0							
11 7	1 59.98	+11 27.2	2.238	3.211	3.9	20.3							
11 17	1 53.16	+10 57.6	2.286	3.212	7.4	20.6							
11 27	1 47.84	+10 35.9	2.362	3.212	10.4	20.8							
288978	2004 <i>TW</i> ₄₇		10 27.5 48°10	0°2/27.4	18								
9 18	2 33.29	+13 40.7	2.213	3.008	13.7	21.1							
9 28	2 29.33	+13 30.6	2.128	3.009	10.8	20.9							
10 8	2 23.37	+13 11.9	2.065	3.010	7.5	20.7							
10 18	2 15.89	+12 46.2	2.028	3.012	3.7	20.5							
10 28	2 7.64	+12 16.4	2.020	3.013	0.3	20.2							
11 7	1 59.51	+11 46.8	2.040	3.015	4.2	20.5							
11 17	1 52.34	+11 21.2	2.089	3.016	7.9	20.8							
11 27	1 46.83	+11 3.5	2.164	3.018	11.1	21.0	</						

EPHEMERIDES

10 27.5

10 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
364498	2007 <i>EH</i> ₃₉	10 27.5 304°60		5°6/22.4 18			155465	1998 <i>RE</i> ₇₉	10 27.5 44°95		2°4/29.1 18		
9 18	2 30.93	− 0 23.8	2.085	2.910	13.4	20.5	9 18	2 39.88	+18 4.3	1.960	2.736	15.8	19.2
9 28	2 27.56	− 1 28.8	2.007	2.903	10.7	20.3	9 28	2 34.83	+18 49.6	1.886	2.750	12.8	19.0
10 8	2 22.20	− 2 35.3	1.952	2.896	7.9	20.1	10 8	2 27.32	+19 25.0	1.833	2.764	9.2	18.8
10 18	2 15.34	− 3 37.5	1.923	2.890	5.8	20.0	10 18	2 17.93	+19 49.3	1.805	2.779	5.4	18.6
10 28	2 7.71	− 4 28.7	1.920	2.883	6.0	20.0	10 28	2 7.60	+20 2.7	1.805	2.793	2.5	18.5
11 7	2 0.19	− 5 3.8	1.946	2.877	8.2	20.1	11 7	1 57.47	+20 7.3	1.834	2.809	4.5	18.7
11 17	1 53.62	− 5 19.3	1.997	2.871	11.1	20.3	11 17	1 48.57	+20 6.6	1.891	2.824	8.1	18.9
11 27	1 48.70	− 5 14.3	2.071	2.864	13.8	20.5	11 27	1 41.77	+20 5.3	1.975	2.839	11.5	19.2
452561	2005 <i>AB</i>	10 27.5 249°82		2°2/24.4 17			403184	2008 <i>JP</i> ₁₆	10 27.5 34°30		3°5/24.9 18		
9 18	2 31.52	+ 4 42.4	4.038	4.825	8.1	24.5	9 18	2 32.56	+ 5 25.5	1.791	2.616	15.2	20.3
9 28	2 27.01	+ 4 3.6	3.919	4.797	6.4	24.4	9 28	2 29.03	+ 4 48.7	1.728	2.627	11.9	20.1
10 8	2 21.34	+ 3 22.0	3.826	4.769	4.4	24.2	10 8	2 23.26	+ 4 7.6	1.686	2.639	8.2	19.9
10 18	2 14.79	+ 2 39.7	3.763	4.740	2.7	24.0	10 18	2 15.85	+ 3 26.8	1.669	2.651	4.7	19.7
10 28	2 7.74	+ 1 59.5	3.731	4.710	2.3	24.0	10 28	2 7.71	+ 2 51.9	1.680	2.663	3.8	19.7
11 7	2 0.66	+ 1 24.2	3.731	4.679	4.0	24.1	11 7	1 59.84	+ 2 27.9	1.718	2.676	6.7	19.9
11 17	1 54.01	+ 0 56.0	3.762	4.648	6.0	24.2	11 17	1 53.17	+ 2 18.2	1.781	2.690	10.2	20.2
11 27	1 48.20	+ 0 36.8	3.821	4.615	8.0	24.3	11 27	1 48.41	+ 2 24.6	1.869	2.703	13.5	20.4
411943	2012 <i>GZ</i> ₂₅	10 27.5 200°19		1°9/29.2 18			359776	2011 <i>UM</i> ₁₃₉	10 27.5 323°03		0°8/28.2 18		
9 18	2 35.22	+19 30.5	2.462	3.228	13.3	21.3	9 18	2 32.02	+18 7.8	1.879	2.674	15.7	21.2
9 28	2 30.77	+19 46.2	2.369	3.227	10.7	21.1	9 28	2 28.82	+17 42.3	1.792	2.671	12.6	20.9
10 8	2 24.35	+19 51.7	2.297	3.226	7.8	20.9	10 8	2 23.30	+17 1.9	1.725	2.668	8.9	20.7
10 18	2 16.41	+19 47.0	2.251	3.224	4.5	20.7	10 18	2 15.96	+16 8.1	1.683	2.664	4.7	20.5
10 28	2 7.66	+19 33.0	2.234	3.223	2.0	20.5	10 28	2 7.70	+15 5.1	1.668	2.661	0.8	20.2
11 7	1 58.96	+19 12.5	2.247	3.222	3.8	20.7	11 7	1 59.56	+13 59.0	1.682	2.659	4.5	20.4
11 17	1 51.14	+18 49.2	2.288	3.220	7.0	20.9	11 17	1 52.53	+12 56.6	1.723	2.656	8.8	20.7
11 27	1 44.92	+18 27.2	2.357	3.219	10.0	21.0	11 27	1 47.45	+12 4.3	1.789	2.653	12.5	20.9
98709	2000 <i>XQ</i> ₃₈	10 27.5 359°08		18°8/22.9 18			307916	2004 <i>DO</i> ₅₃	10 27.5 269°66		0°1/27.7 18		
9 18	2 46.23	−27 48.7	1.164	1.959	23.5	16.8	9 18	2 32.67	+16 13.0	2.012	2.808	14.8	21.5
9 28	2 41.22	−28 27.9	1.118	1.954	21.6	16.6	9 28	2 29.22	+15 46.4	1.917	2.797	11.9	21.3
10 8	2 32.28	−28 34.7	1.087	1.950	19.9	16.5	10 8	2 23.53	+15 6.7	1.842	2.786	8.3	21.0
10 18	2 20.45	−27 56.0	1.073	1.948	18.9	16.5	10 18	2 16.09	+14 15.8	1.793	2.776	4.2	20.8
10 28	2 7.47	−26 23.2	1.077	1.949	18.9	16.5	10 28	2 7.70	+13 17.7	1.771	2.765	0.2	20.4
11 7	1 55.31	−23 57.3	1.100	1.951	20.0	16.6	11 7	1 59.35	+12 17.9	1.778	2.754	4.5	20.7
11 17	1 45.58	−20 47.2	1.144	1.955	21.8	16.7	11 17	1 52.01	+11 22.6	1.813	2.743	8.7	21.0
11 27	1 39.28	−17 7.0	1.206	1.961	23.9	16.9	11 27	1 46.50	+10 37.6	1.874	2.732	12.4	21.2
441691	2008 <i>YK</i> ₁₀₈	10 27.5 135°09		12°9/12.6 18			21789	Frankwasser	10 27.5 350°55		6°7/23.9 18		
9 18	2 46.95	+53 50.6	2.286	2.827	19.2	21.2	9 18	2 31.07	+ 2 37.6	1.069	1.934	20.5	16.9
9 28	2 41.99	+55 13.8	2.205	2.834	17.9	21.1	9 28	2 29.51	+ 1 45.9	1.006	1.926	16.3	16.6
10 8	2 33.20	+56 12.1	2.136	2.841	16.5	21.0	10 8	2 24.55	+ 0 49.4	0.960	1.920	11.7	16.3
10 18	2 21.21	+56 38.1	2.083	2.848	15.1	20.9	10 18	2 16.83	+ 0 3.3	0.935	1.915	7.6	16.1
10 28	2 7.41	+56 25.9	2.049	2.854	13.8	20.8	10 28	2 7.66	+ 0 41.8	0.932	1.911	7.1	16.1
11 7	1 53.74	+55 34.5	2.035	2.860	13.1	20.8	11 7	1 58.73	+ 0 57.3	0.951	1.909	10.8	16.3
11 17	1 42.06	+54 8.3	2.043	2.866	13.0	20.8	11 17	1 51.57	+ 0 45.5	0.992	1.908	15.6	16.5
11 27	1 33.73	+52 17.0	2.074	2.871	13.7	20.9	11 27	1 47.34	+ 0 6.0	1.051	1.908	19.9	16.8
431657	2008 <i>CJ</i> ₁₇	10 27.5 218°57		1°8/26.2 15			322238	2011 <i>BX</i> ₁₁₉	10 27.5 2°48		2°8/29.9 18		
9 18	2 36.75	+11 40.1	1.803	2.609	15.9	22.8	9 18	2 31.71	+22 29.2	1.978	2.755	15.7	20.5
9 28	2 32.62	+10 58.0	1.713	2.602	12.6	22.6	9 28	2 28.54	+22 31.9	1.892	2.755	12.8	20.3
10 8	2 25.97	+10 4.4	1.645	2.594	8.6	22.3	10 8	2 23.09	+22 19.1	1.826	2.754	9.5	20.1
10 18	2 17.33	+ 9 2.7	1.601	2.586	4.3	22.1	10 18	2 15.87	+21 50.6	1.784	2.755	5.8	19.9
10 28	2 7.62	+ 7 58.5	1.586	2.577	2.0	21.9	10 28	2 7.73	+21 8.5	1.768	2.756	2.9	19.7
11 7	1 57.99	+ 6 59.0	1.599	2.567	5.9	22.1	11 7	1 59.71	+20 17.3	1.781	2.757	4.4	19.8
11 17	1 49.55	+ 6 10.3	1.639	2.557	10.3	22.4	11 17	1 52.78	+19 23.0	1.821	2.758	8.0	20.1
11 27	1 43.20	+ 5 37.7	1.704	2.546	14.2	22.6	11 27	1 47.76	+18 32.0	1.886	2.760	11.5	20.3
297055	2010 <i>HP</i> ₁₀₇	10 27.5 106°97		1°3/26.4 18			278113	2007 <i>CW</i>	10 27.5 292°23		0°3/27.7 18		
9 18	2 35.52	+11 44.5	2.034	2.835	14.5	21.9	9 18	2 34.50	+15 45.3	1.518	2.331	18.1	21.7
9 28	2 31.07	+11 10.6	1.965	2.850	11.4	21.7	9 28	2 31.56	+15 32.1	1.426	2.316	14.5	21.4
10 8	2 24.52	+10 27.8	1.918	2.866	7.7	21.6	10 8	2 25.68	+15 4.0	1.352	2.301	10.2	21.1
10 18	2 16.43	+ 9 39.5	1.897	2.881	3.8	21.3	10 18	2 17.38	+14 22.3	1.302	2.286	5.2	20.8
10 28	2 7.67	+ 8 50.1	1.904	2.896	1.5	21.2	10 28	2 7.67	+13 31.0	1.277	2.271	0.3	20.4
11 7	1 59.18	+ 8 4.9	1.941	2.910	5.0	21.5	11 7	1 57.92	+12 37.0	1.279	2.256	5.6	20.8
11 17	1 51.84	+ 7 28.6	2.006	2.924	8.7	21.7	11 17	1 49.49	+11 47.9	1.307	2.242	10.8	21.0
11 27	1 46.31	+ 7 4.7	2.096	2.938	11.9	22.0	11 27	1 43.50	+11 11.0	1.358	2.227	15.4	21.3
242274	2003 <i>UA</i> ₅₃	10 27.5 35°48		7°6/ 2.7 18			80722	2000 <i>CS</i> ₂₅	10 27.5 245°18		3°9/24.6 18		
9 18	2 34.53	+32 19.5	1.416	2.173	21.7	19.5	9 18	2 34.42	+ 7 14.4	1.627	2.452	16.5	20.5
9 28	2 31.81	+32 53.5	1.354	2.189	18.5	19.3	9 28	2 30.98	+ 6 12.3	1.546	2.447	13.0	20.3
10 8	2 25.82	+33 0.0	1.308	2.206	14.8	19.1	10 8	2 24.93	+ 5 0.7	1.487	2.440	9.0	20.0
10 18	2 17.32	+32 35.5	1.282	2.224	11.0	19.0	10 18	2 16.85	+ 3 45.6	1.452	2.434	5.1	19.8
10 28	2 7.63	+31 40.1	1.278	2.243	8.1	18.9	10 28	2 7.70	+ 2 34.7	1.444	2.428	4.3	19.7
11 7	1 58.37	+30 20.0	1.299	2.262	7.9	18.9	11 7	1 58.69	+ 1 36.1	1.463	2.421	7.7	19.9
11 17	1 50.93	+28 45.6	1.345	2.282	10.4	19.1	11 17	1 50.94	+ 0 55.9	1.508	2.414	11.9	20.1
11 27	1 46.32	+27 9.3	1.415	2.302	13.7	19.4	11 27	1 45.38	+ 0 37.8	1.575	2.407	15.7	20.4
278167	2007 <i>DX</i> ₅₄	10 27.5 266°15		0°6/27.9 18			363299	2002 <i>LN</i> ₆	10 27.5 109°14		6°9/21.1 18		
9 18	2 35.32	+16 50											

EPHEMERIDES

10 27.5

10 27.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
341079	2007 <i>HK</i> ₈₃		10 27.5	56°14	1.8/28.9	18	73837	1996 <i>FM</i> ₁₂		10 27.6	353°10	2°5/29.0	18
9 18	2 37.90	+19 59.9	1.429	2.228	19.6	20.4	9 18	2 33.28	+18 35.4	1.421	2.234	19.1	18.7
9 28	2 33.76	+19 47.4	1.379	2.257	15.7	20.2	9 28	2 30.73	+19 0.7	1.342	2.228	15.5	18.4
10 8	2 26.72	+19 16.6	1.346	2.287	11.1	20.0	10 8	2 25.16	+19 11.3	1.281	2.224	11.2	18.2
10 18	2 17.60	+18 29.0	1.337	2.316	6.1	19.8	10 18	2 17.12	+19 6.4	1.242	2.220	6.5	17.9
10 28	2 7.68	+17 29.6	1.354	2.345	1.9	19.6	10 28	2 7.71	+18 47.7	1.227	2.218	2.6	17.7
11 7	1 58.34	+16 25.9	1.397	2.375	5.1	19.9	11 7	1 58.38	+18 19.8	1.238	2.216	5.5	17.8
11 17	1 50.76	+15 26.1	1.467	2.404	9.6	20.3	11 17	1 50.52	+17 49.2	1.274	2.216	10.3	18.1
11 27	1 45.73	+14 37.2	1.561	2.434	13.5	20.6	11 27	1 45.24	+17 23.4	1.333	2.216	14.7	18.4
189967	2003 <i>UL</i> ₂₂₀		10 27.5	71°94	1°1/28.6	18	327129	2005 <i>EW</i> ₁₅₀		10 27.6	157°84	2°0/26.1	18
9 18	2 32.73	+18 53.3	2.276	3.054	13.8	20.2	9 18	2 37.98	+10 39.5	1.699	2.509	16.6	21.5
9 28	2 28.75	+18 34.5	2.205	3.073	11.0	20.0	9 28	2 33.59	+10 1.3	1.623	2.514	13.0	21.3
10 8	2 22.87	+18 3.5	2.155	3.091	7.8	19.9	10 8	2 26.60	+9 13.0	1.569	2.519	8.9	21.1
10 18	2 15.62	+17 21.9	2.131	3.110	4.2	19.7	10 18	2 17.63	+8 18.4	1.539	2.523	4.5	20.8
10 28	2 7.77	+16 32.9	2.136	3.128	1.1	19.5	10 28	2 7.70	+7 23.5	1.536	2.527	2.3	20.7
11 7	2 0.16	+15 41.0	2.170	3.147	3.7	19.7	11 7	1 58.01	+6 34.7	1.562	2.530	6.1	21.0
11 17	1 53.56	+14 51.1	2.233	3.165	7.1	20.0	11 17	1 49.65	+5 58.0	1.615	2.533	10.4	21.2
11 27	1 48.60	+14 8.0	2.323	3.183	10.2	20.2	11 27	1 43.51	+5 37.3	1.692	2.535	14.2	21.5
513278	2006 <i>VG</i> ₁₃₆		10 27.5	7°11	1°0/27.1	18	2540	Blok		10 27.6	309°95	0°6/27.2	18
9 18	2 31.32	+11 55.9	1.007	1.865	22.0	20.8	9 18	2 35.16	+14 31.7	1.317	2.143	19.6	16.3
9 28	2 29.94	+11 57.1	0.948	1.865	17.5	20.6	9 28	2 32.34	+14 8.7	1.239	2.138	15.7	16.1
10 8	2 24.95	+11 45.2	0.905	1.866	12.1	20.3	10 8	2 26.32	+13 29.6	1.180	2.132	10.9	15.8
10 18	2 17.06	+11 23.2	0.883	1.870	6.0	20.0	10 18	2 17.71	+12 37.2	1.142	2.127	5.4	15.5
10 28	2 7.70	+10 57.1	0.882	1.875	1.2	19.7	10 28	2 7.70	+11 37.3	1.129	2.123	0.7	15.1
11 7	1 58.65	+10 34.2	0.904	1.881	7.1	20.1	11 7	1 57.82	+10 38.3	1.142	2.118	6.4	15.5
11 17	1 51.55	+10 21.7	0.948	1.890	12.9	20.4	11 17	1 49.54	+9 48.8	1.180	2.114	11.8	15.8
11 27	1 47.58	+10 24.8	1.012	1.899	17.9	20.7	11 27	1 43.99	+9 15.8	1.239	2.110	16.5	16.1
184042	2004 <i>FF</i> ₈₆		10 27.6	124°78	4°6/24.5	18	46794	1998 <i>JW</i> ₂		10 27.6	126°39	4°0/24.7	18
9 18	2 38.17	+3 43.6	1.645	2.467	16.5	20.3	9 18	2 37.92	+5 49.4	1.633	2.453	16.7	18.9
9 28	2 33.69	+2 59.2	1.579	2.475	13.0	20.1	9 28	2 33.50	+4 57.2	1.567	2.463	13.1	18.7
10 8	2 26.62	+2 11.0	1.533	2.482	9.1	19.9	10 8	2 26.49	+3 58.7	1.522	2.473	9.0	18.5
10 18	2 17.61	+1 24.7	1.511	2.490	5.6	19.7	10 18	2 17.54	+2 59.8	1.502	2.482	5.2	18.3
10 28	2 7.69	+0 46.8	1.517	2.497	4.9	19.7	10 28	2 7.71	+2 7.4	1.509	2.491	4.4	18.3
11 7	1 58.07	+0 23.0	1.550	2.503	7.9	19.9	11 7	1 58.20	+1 28.2	1.543	2.500	7.6	18.5
11 17	1 49.84	+0 17.0	1.609	2.510	11.6	20.1	11 17	1 50.11	+1 6.5	1.604	2.508	11.5	18.7
11 27	1 43.84	+0 30.0	1.691	2.516	15.1	20.4	11 27	1 44.24	+1 4.5	1.688	2.516	15.0	19.0
44665	1999 <i>RF</i> ₁₇₄		10 27.6	307°83	0°6/27.2	18 R	54768	2001 <i>LA</i> ₈		10 27.6	63°97	0°5/27.1	18
9 18	2 35.70	+12 58.9	1.354	2.180	19.2	18.9	9 18	2 33.01	+15 48.3	1.776	2.580	16.2	19.2
9 28	2 32.81	+12 55.2	1.269	2.168	15.4	18.6	9 28	2 29.45	+14 59.9	1.711	2.598	12.7	19.0
10 8	2 26.72	+12 39.3	1.202	2.155	10.7	18.3	10 8	2 23.58	+13 57.6	1.667	2.615	8.7	18.8
10 18	2 17.96	+12 13.0	1.158	2.143	5.4	18.0	10 18	2 16.04	+12 44.9	1.648	2.633	4.2	18.6
10 28	2 7.66	+11 40.6	1.138	2.132	0.7	17.6	10 28	2 7.79	+11 27.9	1.657	2.650	0.6	18.3
11 7	1 57.34	+11 8.5	1.144	2.120	6.3	18.0	11 7	1 59.87	+10 13.9	1.694	2.668	4.9	18.7
11 17	1 48.51	+10 43.6	1.175	2.109	11.8	18.3	11 17	1 53.22	+9 9.6	1.759	2.686	9.1	19.0
11 27	1 42.39	+10 32.0	1.228	2.099	16.6	18.5	11 27	1 48.56	+8 20.2	1.848	2.704	12.6	19.2
294188	2007 <i>TV</i> ₄₀₆		10 27.6	28°30	3°2/26.1	18	258659	2002 <i>EM</i> ₉₃		10 27.6	139°12	0°8/28.1	17
9 18	2 40.96	+4 6.8	1.512	2.334	17.7	19.4	9 18	2 40.49	+16 23.2	1.616	2.411	17.9	21.2
9 28	2 36.17	+4 21.2	1.445	2.341	14.0	19.1	9 28	2 35.81	+16 19.7	1.541	2.419	14.3	21.0
10 8	2 28.49	+4 34.9	1.398	2.349	9.7	18.9	10 8	2 28.27	+16 2.7	1.485	2.427	10.0	20.7
10 18	2 18.60	+4 50.8	1.375	2.358	5.3	18.7	10 18	2 18.52	+15 33.3	1.453	2.435	5.2	20.5
10 28	2 7.64	+5 12.1	1.379	2.367	3.3	18.6	10 28	2 7.68	+14 54.8	1.449	2.442	0.8	20.2
11 7	1 57.00	+5 41.5	1.410	2.377	6.8	18.8	11 7	1 57.09	+14 13.0	1.472	2.449	5.1	20.5
11 17	1 47.92	+6 20.6	1.468	2.387	11.1	19.1	11 17	1 48.00	+13 34.3	1.523	2.455	9.8	20.8
11 27	1 41.34	+7 10.0	1.549	2.398	15.0	19.4	11 27	1 41.37	+13 4.8	1.598	2.460	13.9	21.1
210286	2007 <i>TZ</i> ₅₅		10 27.6	312°41	0°6/28.0	18	217490	2006 <i>GV</i> ₁₂		10 27.6	59°32	1°8/26.6	17
9 18	2 33.56	+16 54.7	1.798	2.597	16.2	20.7	9 18	2 40.46	+10 8.0	1.198	2.030	20.8	19.8
9 28	2 30.18	+16 39.9	1.711	2.593	13.0	20.5	9 28	2 36.37	+9 59.7	1.144	2.046	16.4	19.5
10 8	2 24.32	+16 11.3	1.646	2.589	9.1	20.3	10 8	2 28.88	+9 41.6	1.107	2.062	11.2	19.3
10 18	2 16.54	+15 30.5	1.604	2.586	4.7	20.0	10 18	2 18.84	+9 17.4	1.093	2.079	5.5	19.0
10 28	2 7.74	+14 41.2	1.589	2.582	0.6	19.7	10 28	2 7.67	+8 52.6	1.103	2.095	2.0	18.9
11 7	1 59.04	+13 48.9	1.602	2.579	4.7	20.0	11 7	1 57.04	+8 33.7	1.139	2.112	6.9	19.2
11 17	1 51.52	+13 0.1	1.642	2.575	9.1	20.2	11 17	1 48.39	+8 26.0	1.199	2.129	12.1	19.6
11 27	1 46.06	+12 20.9	1.707	2.572	13.0	20.5	11 27	1 42.70	+8 33.1	1.282	2.147	16.5	19.9
513568	2010 <i>UQ</i> ₁₀₈		10 27.6	97°18	0°9/26.8	18	46514	Lasswitz		10 27.6	142°12	5°0/1.7	18
9 18	2 35.11	+11 27.2	2.159	2.957	13.9	21.3	9 18	2 39.64	+32 58.7	1.956	2.669	17.8	19.9
9 28	2 30.72	+11 13.5	2.083	2.967	10.9	21.1	9 28	2 34.81	+32 25.1	1.870	2.681	15.1	19.7
10 8	2 24.31	+10 52.5	2.030	2.977	7.4	20.9	10 8	2 27.35	+31 25.5	1.802	2.693	11.8	19.5
10 18	2 16.39	+10 26.4	2.003	2.987	3.6	20.7	10 18	2 17.96	+29 58.5	1.758	2.703	8.3	19.4
10 28	2 7.75	+9 58.6	2.004	2.997	1.0	20.6	10 28	2 7.72	+28 6.8	1.741	2.713	5.4	19.2
11 7	1 59.32	+9 33.1	2.035	3.006	4.5	20.8	11 7	1 57.89	+25 57.8	1.754	2.722	5.5	19.2
11 17	1 51.92	+9 13.8	2.094	3.016	8.1	21.1	11 17	1 49.54	+23 42.0	1.797	2.731	8.4	19.4
11 27	1 46.24	+9 3.7	2.179	3.025	11.3	21.3	11 27	1 43.50	+21 30.7	1.868	2.739	11.8	19.7
117741	2005 <i>GD</i> ₃₁		10 27.6	349°29	0°2/27.5	18	512808	2016 <i>UY</i> ₉₀		10 27.6	267°41	0°2/27.4	18
9 18	2 39.06												

EPHEMERIDES

10 27.6

10 27.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
521122	2015 <i>DG</i> ₂₄₇	10 27.6 183°15 0°5/27.1 16						104676	2000 <i>GL</i> ₁₄₉	10 27.6 158°21 2°5/25.2 18				
9 18	2 36.10	+15 15.5	1.766	2.566	16.4	22.2	9 18	2 33.32	+8 48.2	2.209	3.015	13.4	20.9	
9 28	2 32.13	+14 35.7	1.683	2.567	13.0	21.9	9 28	2 29.31	+7 54.3	2.130	3.019	10.4	20.7	
10 8	2 25.64	+13 41.6	1.620	2.567	9.0	21.7	10 8	2 23.36	+6 52.9	2.074	3.023	7.1	20.5	
10 18	2 17.21	+12 36.1	1.583	2.567	4.4	21.4	10 18	2 15.98	+5 48.1	2.044	3.027	3.8	20.3	
10 28	2 7.78	+11 24.4	1.573	2.566	0.7	21.2	10 28	2 7.92	+4 45.3	2.044	3.031	2.7	20.2	
11 7	1 58.54	+10 13.9	1.591	2.565	5.3	21.5	11 7	2 0.03	+3 50.0	2.073	3.034	5.6	20.4	
11 17	1 50.55	+9 11.8	1.637	2.563	9.7	21.7	11 17	1 53.09	+3 6.7	2.130	3.036	8.9	20.7	
11 27	1 44.69	+8 24.0	1.708	2.561	13.6	22.0	11 27	1 47.79	+2 38.7	2.213	3.039	11.9	20.9	
397974	2009 <i>AO</i> ₄₄	10 27.6 293°41 2°9/29.7 18						350002	2010 <i>GA</i> ₁₀₁	10 27.6 36°95 1°3/26.6 18				
9 18	2 34.62	+21 50.8	1.785	2.567	17.0	21.6	9 18	2 33.65	+12 37.5	1.552	2.372	17.4	20.6	
9 28	2 31.26	+21 59.0	1.692	2.557	13.9	21.4	9 28	2 30.45	+12 4.5	1.482	2.378	13.7	20.4	
10 8	2 25.26	+21 51.2	1.618	2.548	10.3	21.1	10 8	2 24.59	+11 19.3	1.432	2.385	9.4	20.2	
10 18	2 17.12	+21 26.4	1.567	2.539	6.2	20.9	10 18	2 16.73	+10 25.7	1.406	2.391	4.6	19.9	
10 28	2 7.79	+20 46.3	1.542	2.530	3.0	20.7	10 28	2 7.89	+9 29.5	1.406	2.398	1.5	19.7	
11 7	1 58.47	+19 55.5	1.545	2.521	4.9	20.8	11 7	1 59.31	+8 37.8	1.433	2.406	5.9	20.1	
11 17	1 50.35	+19 0.6	1.575	2.512	9.0	21.0	11 17	1 52.11	+7 57.0	1.486	2.413	10.4	20.3	
11 27	1 44.41	+18 9.3	1.629	2.504	13.0	21.2	11 27	1 47.17	+7 31.9	1.562	2.421	14.4	20.6	
523058	2016 <i>QC</i> ₉₁	10 27.6 77°32 7°7/21.0 18						484447	2008 <i>AS</i> ₁₂₈	10 27.6 306°31 2°7/25.5 17				
9 18	2 33.09	-2 46.3	1.700	2.533	15.6	20.6	9 18	2 32.76	+8 26.5	1.842	2.662	15.1	21.6	
9 28	2 29.57	-4 25.7	1.645	2.543	12.5	20.5	9 28	2 29.42	+7 48.5	1.758	2.654	11.9	21.4	
10 8	2 23.71	-6 4.4	1.612	2.552	9.6	20.3	10 8	2 23.77	+7 2.7	1.694	2.647	8.2	21.1	
10 18	2 16.16	-7 33.5	1.604	2.562	7.8	20.2	10 18	2 16.31	+6 12.9	1.656	2.640	4.3	20.9	
10 28	2 7.85	-8 44.2	1.623	2.572	8.3	20.3	10 28	2 7.90	+5 24.8	1.644	2.632	2.9	20.8	
11 7	1 59.85	-9 29.9	1.667	2.581	10.6	20.4	11 7	1 59.59	+4 44.3	1.661	2.626	6.2	21.0	
11 17	1 53.12	-9 48.0	1.735	2.591	13.4	20.6	11 17	1 52.35	+4 16.4	1.704	2.619	10.2	21.2	
11 27	1 48.38	-9 38.9	1.823	2.601	16.0	20.8	11 27	1 47.03	+4 4.5	1.771	2.612	13.8	21.4	
321414	2009 <i>QE</i> ₁₅	10 27.6 343°73 3°1/24.6 18						101822	1999 <i>JE</i> ₁₇	10 27.6 153°63 5°2/24.3 18				
9 18	2 29.62	+8 6.0	2.013	2.833	13.9	20.3	9 18	2 39.22	+2 51.8	1.562	2.386	17.1	20.3	
9 28	2 26.66	+7 3.3	1.932	2.830	10.9	20.1	9 28	2 34.74	+2 2.1	1.494	2.391	13.6	20.0	
10 8	2 21.68	+5 52.4	1.874	2.827	7.5	19.9	10 8	2 27.51	+1 8.9	1.446	2.395	9.6	19.8	
10 18	2 15.17	+4 38.1	1.842	2.825	4.1	19.7	10 18	2 18.18	+0 18.3	1.422	2.399	6.1	19.6	
10 28	2 7.90	+3 26.8	1.838	2.822	3.4	19.6	10 28	2 7.83	-0 22.3	1.425	2.402	5.5	19.6	
11 7	2 0.76	+2 24.9	1.862	2.820	6.3	19.8	11 7	1 57.76	-0 46.6	1.455	2.405	8.6	19.8	
11 17	1 54.59	+1 37.7	1.913	2.819	9.8	20.0	11 17	1 49.15	-0 50.9	1.510	2.408	12.5	20.0	
11 27	1 50.10	+1 8.5	1.988	2.817	13.0	20.2	11 27	1 42.91	-0 34.1	1.587	2.410	16.0	20.3	
489664	2007 <i>UW</i> ₁₁₅	10 27.6 359°11 1°1/28.3 16						484266	2007 <i>HM</i> ₇₁	10 27.6 197°71 2°3/24.9 18				
9 18	2 29.60	+17 44.3	1.350	2.175	19.3	21.4	9 18	2 31.11	+7 54.0	2.824	3.623	10.9	22.7	
9 28	2 27.86	+17 35.7	1.276	2.172	15.5	21.2	9 28	2 27.18	+7 1.7	2.734	3.620	8.5	22.6	
10 8	2 23.17	+17 9.5	1.220	2.169	11.0	20.9	10 8	2 21.72	+6 3.7	2.669	3.617	5.8	22.4	
10 18	2 16.13	+16 27.1	1.185	2.168	5.8	20.6	10 18	2 15.13	+5 3.3	2.632	3.613	3.2	22.2	
10 28	2 7.86	+15 33.0	1.175	2.169	1.1	20.3	10 28	2 7.98	+4 4.7	2.624	3.609	2.5	22.2	
11 7	1 59.76	+14 34.8	1.191	2.170	5.5	20.6	11 7	2 0.92	+3 12.3	2.647	3.604	4.8	22.3	
11 17	1 53.14	+13 40.9	1.231	2.172	10.6	20.9	11 17	1 54.55	+2 29.5	2.699	3.599	7.5	22.5	
11 27	1 49.02	+12 59.1	1.293	2.176	15.1	21.2	11 27	1 49.43	+1 59.3	2.778	3.593	10.1	22.6	
208938	2002 <i>VV</i> ₄₄	10 27.6 25°20 1°6/26.5 18						514677	2005 <i>VX</i> ₄₅	10 27.6 252°81 1°4/26.7 18				
9 18	2 34.72	+10 11.1	1.643	2.462	16.6	20.5	9 18	2 37.96	+10 29.7	1.712	2.522	16.5	22.3	
9 28	2 31.14	+9 57.0	1.571	2.467	13.1	20.3	9 28	2 33.82	+10 19.9	1.624	2.514	13.1	22.0	
10 8	2 25.00	+9 34.8	1.520	2.472	9.0	20.1	10 8	2 26.99	+10 2.0	1.557	2.506	9.0	21.8	
10 18	2 16.91	+9 7.4	1.492	2.478	4.5	19.8	10 18	2 18.01	+9 38.2	1.514	2.498	4.5	21.5	
10 28	2 7.86	+8 39.5	1.492	2.484	1.8	19.7	10 28	2 7.85	+9 12.6	1.498	2.490	1.6	21.3	
11 7	1 59.03	+8 16.2	1.518	2.490	5.8	19.9	11 7	1 57.74	+8 50.4	1.510	2.482	5.8	21.5	
11 17	1 51.51	+8 2.2	1.571	2.497	10.1	20.2	11 17	1 48.87	+8 36.1	1.549	2.474	10.3	21.8	
11 27	1 46.16	+8 0.9	1.648	2.504	13.9	20.5	11 27	1 42.21	+8 34.0	1.612	2.465	14.3	22.0	
108499	2001 <i>KG</i> ₆₅	10 27.6 281°87 9°3/19.7 18						173710	2001 <i>QU</i> ₁₂₁	10 27.6 20°31 3°0/29.7 18				
9 18	2 33.90	-9 15.5	1.832	2.655	15.0	19.7	9 18	2 35.44	+20 49.6	1.696	2.483	17.5	19.9	
9 28	2 30.25	-10 40.9	1.764	2.647	12.6	19.5	9 28	2 31.91	+21 13.3	1.617	2.487	14.3	19.7	
10 8	2 24.27	-12 1.0	1.718	2.639	10.4	19.3	10 8	2 25.68	+21 22.2	1.558	2.491	10.5	19.5	
10 18	2 16.52	-13 7.3	1.696	2.632	9.3	19.3	10 18	2 17.34	+21 15.4	1.522	2.495	6.3	19.3	
10 28	2 7.88	-13 51.5	1.699	2.624	9.9	19.3	10 28	2 7.89	+20 54.3	1.512	2.500	3.1	19.1	
11 7	1 59.41	-14 8.2	1.727	2.616	11.8	19.4	11 7	1 58.59	+20 22.9	1.530	2.506	5.0	19.2	
11 17	1 52.07	-13 55.9	1.779	2.609	14.3	19.5	11 17	1 50.62	+19 47.2	1.573	2.512	9.0	19.5	
11 27	1 46.68	-13 16.0	1.850	2.601	16.8	19.7	11 27	1 44.92	+19 13.9	1.642	2.518	12.8	19.7	
110966	2001 <i>UO</i> ₁₇₁	10 27.6 44°54 2°2/25.8 18						138166	2000 <i>ER</i> ₉₇	10 27.6 266°68 0°3/27.4 18				
9 18	2 33.37	+6 36.9	2.378	3.184	12.5	19.5	9 18	2 47.03	+10 24.6	1.883	2.667	16.1	19.7	
9 28	2 29.17	+6 24.7	2.303	3.192	9.8	19.4	9 28	2 41.19	+10 54.9	1.767	2.641	13.0	19.4	
10 8	2 23.17	+6 9.1	2.251	3.200	6.7	19.2	10 8	2 32.34	+11 21.7	1.673	2.614	9.2	19.1	
10 18	2 15.86	+5 52.8	2.226	3.208	3.6	19.0	10 18	2 20.89	+11 45.0	1.604	2.587	4.7	18.8	
10 28	2 7.92	+5 38.8	2.229	3.217	2.3	18.9	10 28	2 7.73	+12 5.9	1.565	2.559	0.4	18.4	
11 7	2 0.14	+5 30.5	2.262	3.226	4.9	19.1	11 7	1 54.18	+12 26.2	1.556	2.530	5.4	18.7	
11 17	1 53.26	+5 30.2	2.323	3.235	8.0	19.3	11 17	1 41.64	+12 48.4	1.577	2.500	10.2	18.9	
11 27	1 47.89	+5 39.9	2.410	3.244	10.8	19.5	11 27	1 31.36	+13 15.7	1.624	2.470	14.6	19.1	
291376	2006 <i>BX</i> ₂₈₁	10 27.6 118°14 3°5/23.9 18						457802	2009 <i>RY</i> ₆	10 27.6 52°28 15°5/2.9 17				
9 18	2 30.73	+4 11.8	2.446	3.259	12.0	21.4	9 18	2 53.16	+35 18.1	1.115	1.855	27.3	20.7	
9 28	2 27.05	+3 14.8	2.372	3.264	9.4	21.3	9 28	2 49.19	+38 19.4	1.051	1.861	24.4	20.5	
10														

EPHEMERIDES

10 27.6

10 27.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
287097	2002 RE ₁₁₃		10 27.6 72°44'	0°7/28.1	16		72439	2001 CE ₄₅		10 27.6 313°75'	10°0/20.3	18	
9 18	2 37.82	+17 53.1	1.402	2.209	19.6	21.0	9 18	2 35.36	-10 7.7	1.660	2.486	16.2	18.2
9 28	2 33.91	+17 27.5	1.344	2.229	15.6	20.8	9 28	2 31.67	-11 23.3	1.594	2.478	13.6	18.0
10 8	2 27.01	+16 44.3	1.304	2.249	10.8	20.6	10 8	2 25.40	-12 31.7	1.549	2.471	11.3	17.8
10 18	2 17.92	+15 45.9	1.287	2.269	5.6	20.4	10 18	2 17.16	-13 24.0	1.527	2.463	10.1	17.7
10 28	2 7.89	+14 38.3	1.296	2.289	0.7	20.1	10 28	2 7.94	-13 51.5	1.529	2.456	10.6	17.7
11 7	1 58.34	+13 29.6	1.332	2.309	5.4	20.5	11 7	1 58.92	-13 49.4	1.555	2.449	12.6	17.9
11 17	1 50.52	+12 28.2	1.394	2.329	10.2	20.8	11 17	1 51.19	-13 16.6	1.604	2.443	15.2	18.0
11 27	1 45.29	+11 41.0	1.479	2.348	14.4	21.1	11 27	1 45.62	-12 15.5	1.673	2.436	17.8	18.2
81750	2000 JU ₅₅		10 27.6 116°75'	0°8/26.9	18		48683	1996 BQ ₁		10 27.6 330°44'	1°5/26.9	18	
9 18	2 34.34	+13 31.8	2.213	3.006	13.7	19.6	9 18	2 32.52	+10 41.6	1.186	2.032	20.1	18.8
9 28	2 30.08	+12 56.4	2.139	3.019	10.8	19.4	9 28	2 30.79	+10 42.0	1.103	2.013	16.1	18.5
10 8	2 23.87	+12 11.3	2.087	3.032	7.4	19.2	10 8	2 25.69	+10 32.0	1.037	1.996	11.3	18.2
10 18	2 16.24	+11 19.4	2.061	3.045	3.6	19.0	10 18	2 17.67	+10 14.2	0.993	1.979	5.7	17.8
10 28	2 7.96	+10 24.8	2.065	3.057	0.9	18.8	10 28	2 7.92	+9 53.6	0.971	1.964	1.6	17.5
11 7	1 59.91	+9 32.7	2.098	3.069	4.4	19.1	11 7	1 58.05	+9 36.8	0.973	1.950	7.1	17.8
11 17	1 52.87	+8 47.8	2.160	3.081	8.0	19.4	11 17	1 49.74	+9 30.1	0.999	1.937	12.9	18.1
11 27	1 47.51	+8 14.0	2.247	3.092	11.1	19.6	11 27	1 44.34	+9 39.0	1.045	1.925	18.1	18.4
451171	2009 SR ₂₃₅		10 27.6 342°85'	0°6/27.9	17		92967	2000 RW ₅₀		10 27.6 294°55'	1°2/26.9	18	
9 18	2 39.03	+11 38.9	1.727	2.531	16.6	19.8	9 18	2 39.88	+9 16.4	1.665	2.475	16.8	18.1
9 28	2 34.80	+12 26.7	1.635	2.520	13.3	19.5	9 28	2 35.56	+9 31.2	1.571	2.461	13.5	17.8
10 8	2 27.79	+13 10.4	1.563	2.509	9.3	19.3	10 8	2 28.38	+9 41.0	1.497	2.447	9.4	17.5
10 18	2 18.50	+13 49.6	1.517	2.500	4.8	19.0	10 18	2 18.82	+9 47.2	1.448	2.433	4.7	17.2
10 28	2 7.86	+14 24.5	1.497	2.491	0.6	18.7	10 28	2 7.88	+9 52.6	1.426	2.419	1.3	17.0
11 7	1 57.14	+14 56.5	1.506	2.483	5.0	19.0	11 7	1 56.85	+10 0.6	1.432	2.405	5.8	17.2
11 17	1 47.62	+15 27.7	1.543	2.476	9.6	19.2	11 17	1 47.06	+10 14.4	1.465	2.392	10.6	17.5
11 27	1 40.35	+16 1.1	1.604	2.470	13.6	19.5	11 27	1 39.60	+10 37.4	1.522	2.379	14.8	17.7
38239	1999 OR ₃		10 27.6 134°41'	1°1/26.6	15		398826	2013 BG ₇₄		10 27.6 255°50'	1°7/28.7	18	
9 18	2 45.13	+13 55.9	2.211	2.980	14.5	23.1	9 18	2 40.02	+16 38.0	1.974	2.754	15.6	20.8
9 28	2 38.31	+13 0.7	2.140	3.007	11.4	22.9	9 28	2 35.22	+17 8.9	1.880	2.748	12.6	20.6
10 8	2 29.35	+11 54.5	2.092	3.032	7.7	22.8	10 8	2 27.87	+17 30.9	1.807	2.742	9.0	20.4
10 18	2 18.90	+10 40.7	2.073	3.056	3.8	22.6	10 18	2 18.47	+17 43.2	1.759	2.736	5.0	20.1
10 28	2 7.86	+9 24.6	2.085	3.077	1.2	22.4	10 28	2 7.91	+17 46.4	1.739	2.730	1.7	19.9
11 7	1 57.22	+8 12.3	2.130	3.098	4.8	22.7	11 7	1 57.32	+17 43.1	1.748	2.724	4.5	20.1
11 17	1 47.87	+7 9.4	2.205	3.116	8.4	23.0	11 17	1 47.84	+17 36.9	1.786	2.718	8.6	20.3
11 27	1 40.47	+6 20.4	2.307	3.132	11.6	23.2	11 27	1 40.42	+17 32.5	1.849	2.711	12.3	20.5
209269	2003 XG ₉		10 27.6 9°34'	9°2/2.6	18		454662	2014 QM ₃₃₇		10 27.6 42°72'	1°5/26.3	15	
9 18	2 37.92	+32 19.8	1.523	2.267	20.9	19.2	9 18	2 31.85	+11 58.9	1.814	2.629	15.5	21.0
9 28	2 34.82	+33 45.9	1.446	2.269	18.2	19.0	9 28	2 28.49	+11 17.0	1.754	2.648	12.1	20.9
10 8	2 28.30	+34 51.2	1.386	2.271	15.0	18.8	10 8	2 22.95	+10 25.3	1.715	2.667	8.2	20.7
10 18	2 18.90	+35 29.0	1.345	2.274	11.9	18.6	10 18	2 15.82	+9 27.6	1.702	2.687	4.0	20.5
10 28	2 7.84	+35 35.1	1.327	2.277	9.6	18.5	10 28	2 8.03	+8 29.7	1.715	2.707	1.7	20.3
11 7	1 56.79	+35 10.6	1.334	2.282	9.5	18.5	11 7	2 0.55	+7 37.5	1.757	2.727	5.3	20.6
11 17	1 47.39	+34 22.0	1.364	2.287	11.5	18.7	11 17	1 54.27	+6 56.3	1.825	2.748	9.1	20.9
11 27	1 40.95	+33 19.9	1.417	2.293	14.5	18.9	11 27	1 49.87	+6 29.6	1.918	2.768	12.5	21.2
78960	2003 SX ₂₃₇		10 27.6 114°25'	1°9/25.9	18		427652	2003 YF ₁₀		10 27.6 0°25'	6°0/30.2	18	
9 18	2 33.35	+11 29.3	1.825	2.638	15.5	19.7	9 18	2 28.39	+20 38.1	0.865	1.719	25.0	19.5
9 28	2 29.82	+10 39.7	1.748	2.641	12.2	19.5	9 28	2 28.60	+21 58.5	0.806	1.713	20.8	19.2
10 8	2 23.99	+9 39.2	1.692	2.643	8.3	19.2	10 8	2 24.74	+22 59.9	0.761	1.710	15.7	18.9
10 18	2 16.40	+8 31.8	1.661	2.646	4.1	19.0	10 18	2 17.36	+23 37.1	0.733	1.709	10.2	18.6
10 28	2 7.96	+7 23.7	1.658	2.649	2.1	18.9	10 28	2 7.95	+23 47.8	0.724	1.710	6.2	18.4
11 7	1 59.71	+6 21.7	1.683	2.651	5.8	19.1	11 7	1 58.67	+23 35.7	0.736	1.714	8.0	18.6
11 17	1 52.63	+5 31.8	1.736	2.654	9.8	19.4	11 17	1 51.59	+23 9.7	0.767	1.721	13.1	18.9
11 27	1 47.49	+4 58.4	1.812	2.656	13.4	19.6	11 27	1 48.20	+22 41.7	0.818	1.729	18.2	19.2
119128	2001 OY ₁₀₁		10 27.6 72°43'	0°5/27.9	18		153881	2001 XH ₁₄₈		10 27.6 47°29'	2°8/25.9	18	R
9 18	2 38.14	+16 8.5	1.485	2.292	18.7	20.1	9 18	2 35.70	+9 35.9	1.320	2.154	19.1	18.9
9 28	2 34.06	+15 57.0	1.422	2.308	14.8	19.9	9 28	2 32.28	+8 56.5	1.267	2.172	14.9	18.7
10 8	2 27.09	+15 31.1	1.379	2.325	10.3	19.7	10 8	2 25.92	+8 7.1	1.234	2.190	10.1	18.5
10 18	2 17.98	+14 52.7	1.359	2.342	5.3	19.4	10 18	2 17.40	+7 13.3	1.224	2.209	5.2	18.3
10 28	2 7.90	+14 6.3	1.365	2.359	0.5	19.1	10 28	2 7.97	+6 22.3	1.239	2.228	3.0	18.2
11 7	1 58.22	+13 18.7	1.399	2.375	5.2	19.5	11 7	1 59.03	+5 41.6	1.279	2.248	7.1	18.5
11 17	1 50.16	+12 36.7	1.458	2.392	10.0	19.9	11 17	1 51.78	+5 16.7	1.345	2.268	11.6	18.8
11 27	1 44.58	+12 6.1	1.542	2.409	14.0	20.1	11 27	1 47.07	+5 10.5	1.433	2.289	15.6	19.1
489217	2006 KG ₄₆		10 27.6 250°06'	0°9/28.7	17		23323	Anand		10 27.6 167°76'	0°7/26.9	18	
9 18	2 31.23	+19 39.6	2.840	3.605	11.7	22.9	9 18	2 32.26	+13 3.9	2.411	3.205	12.7	19.5
9 28	2 27.47	+19 8.7	2.728	3.588	9.4	22.7	9 28	2 28.41	+12 34.5	2.325	3.206	10.0	19.3
10 8	2 22.06	+18 26.0	2.639	3.572	6.7	22.5	10 8	2 22.74	+11 56.4	2.262	3.207	6.9	19.1
10 18	2 15.38	+17 32.5	2.577	3.554	3.7	22.3	10 18	2 15.73	+11 12.0	2.225	3.209	3.4	18.9
10 28	2 8.01	+16 30.9	2.545	3.537	1.0	22.0	10 28	2 8.04	+10 24.9	2.217	3.210	0.8	18.7
11 7	2 0.66	+15 25.1	2.543	3.519	3.3	22.2	11 7	2 0.47	+9 39.6	2.239	3.210	4.2	19.0
11 17	1 53.99	+14 19.9	2.571	3.501	6.4	22.4	11 17	1 53.75	+9 0.3	2.289	3.211	7.6	19.2
11 27	1 48.63	+13 20.2	2.627	3.482	9.4	22.5	11 27	1 48.53	+8 30.7	2.366	3.212	10.6	19.4
183213	2002 TE ₃₃		10 27.6 168°15'	2°9/29.5	18		344965	2004 XH ₂₀		10 27.6 21°43'	8°1/23.1	18	
9 18	2 39.97	+20 38.2	1.663	2.444	18.1	20.0	9 18	2 38.29	-5 28.8	1.506	2.336	17.4	19.9
9 28	2 35.61	+20 59.3	1.580	2.446	14.7	19.8	9 28	2 34.08	-6 10.8	1.446	2.339	14.2	19.7
10 8	2 28.34	+21 5.4	1.516	2.447	10.8	19.5	10 8	2 27.09	-6 47.2	1.405	2.343	10.9	19.6
10 18	2 18.73	+20 55.2	1.475	2.448	6.4	19.3	10 18	2 18.00	-7 10.7	1.387	2.347	8.5	19.4
10 28	2 7.87	+20 30.0	1.461	2.449	3.0	19.1	10 28	2 7.94	-7 14.1	1.394	2.351	8.4	19.5
11 7	1 57.13	+19 54.0	1.474	2.450	5.2	19.2	11 7	1 58.22	-6 53.4	1.427	2.356	10.8	19.6
11 17	1 47.81	+19 13.5	1.515	2.451	9.5	19.5	11 17	1 50.01	-6 8.4	1.484	2.362	13.9	19.8
11 27	1 40.95	+18 36.1	1.580	2.451	13.5	19.7	11 27	1 44.18	-5 1.2	1.562	2.367	17.0	20.0

EPHEMERIDES

10 27.6

10 27.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
266021	2006 <i>FZ</i> ₁₀		10 27.6 269°78'	0°4/27.3	17		402389	2005 <i>YU</i> ₇₇		10 27.6 346°98'	2°2/26.0	17	
9 18	2 33.28	+13 4.7	2.415	3.207	12.8	21.5	9 18	2 31.94	+ 9 2.2	1.804	2.625	15.3	20.8
9 28	2 29.34	+12 54.4	2.315	3.194	10.1	21.3	9 28	2 28.85	+ 8 38.4	1.722	2.620	12.1	20.6
10 8	2 23.50	+12 36.2	2.238	3.182	7.0	21.1	10 8	2 23.43	+ 8 7.3	1.662	2.615	8.3	20.4
10 18	2 16.17	+12 11.8	2.186	3.170	3.5	20.8	10 18	2 16.22	+ 7 32.1	1.626	2.611	4.2	20.1
10 28	2 8.02	+11 43.8	2.164	3.157	0.5	20.6	10 28	2 8.06	+ 6 57.8	1.617	2.607	2.3	20.0
11 7	1 59.88	+11 15.9	2.171	3.144	4.1	20.8	11 7	2 0.00	+ 6 29.5	1.635	2.604	5.8	20.2
11 17	1 52.53	+10 51.9	2.207	3.132	7.6	21.0	11 17	1 53.05	+ 6 11.8	1.680	2.601	9.9	20.4
11 27	1 46.71	+10 35.3	2.269	3.119	10.8	21.2	11 27	1 48.02	+ 6 8.0	1.749	2.599	13.5	20.7
65281	2002 <i>GM</i> ₁₂₁		10 27.6 309°38'	3°2/22.9	18		18225	7069 <i>P-L</i>		10 27.6 334°39'	1°0/26.8	18	
9 18	2 28.02	- 3 4.9	4.168	4.967	7.7	19.3	9 18	2 28.93	+16 31.6	1.429	2.254	18.4	18.0
9 28	2 24.24	- 3 23.9	4.084	4.963	6.1	19.2	9 28	2 27.20	+15 25.3	1.346	2.245	14.6	17.7
10 8	2 19.47	- 3 41.3	4.025	4.959	4.6	19.1	10 8	2 22.69	+13 57.5	1.282	2.236	10.1	17.4
10 18	2 13.97	- 3 54.9	3.994	4.955	3.4	19.0	10 18	2 15.96	+12 12.7	1.242	2.228	5.0	17.1
10 28	2 8.12	- 4 2.6	3.993	4.951	3.4	19.0	10 28	2 8.07	+10 19.3	1.228	2.221	1.3	16.9
11 7	2 2.33	- 4 2.6	4.022	4.947	4.6	19.1	11 7	2 0.30	+ 8 28.7	1.240	2.214	6.3	17.2
11 17	1 56.98	- 3 53.8	4.079	4.943	6.1	19.2	11 17	1 53.89	+ 6 52.0	1.277	2.208	11.4	17.5
11 27	1 52.44	- 3 35.7	4.163	4.939	7.7	19.3	11 27	1 49.82	+ 5 37.8	1.337	2.202	15.9	17.7
300630	2007 <i>UJ</i> ₄₂		10 27.6 95°18'	2°1/29.3	18		151685	2003 <i>AU</i> ₃₅		10 27.6 245°32'	1°7/29.3	18	
9 18	2 35.89	+20 43.6	1.907	2.685	16.2	21.2	9 18	2 33.80	+21 4.5	2.376	3.141	13.7	20.8
9 28	2 31.86	+20 42.1	1.828	2.693	13.1	21.0	9 28	2 29.92	+20 46.2	2.269	3.127	11.1	20.5
10 8	2 25.42	+20 25.6	1.770	2.702	9.5	20.8	10 8	2 24.00	+20 13.9	2.183	3.112	8.1	20.3
10 18	2 17.15	+19 54.6	1.736	2.711	5.5	20.6	10 18	2 16.48	+19 28.1	2.123	3.097	4.7	20.1
10 28	2 7.98	+19 11.5	1.729	2.719	2.2	20.4	10 28	2 8.08	+18 31.1	2.091	3.082	1.7	19.9
11 7	1 59.02	+18 21.2	1.751	2.727	4.4	20.6	11 7	1 59.68	+17 27.3	2.090	3.066	3.8	20.0
11 17	1 51.28	+17 30.0	1.800	2.736	8.3	20.8	11 17	1 52.14	+16 22.5	2.117	3.050	7.4	20.2
11 27	1 45.57	+16 44.0	1.875	2.744	11.8	21.1	11 27	1 46.22	+15 22.5	2.172	3.033	10.7	20.4
278258	2007 <i>EH</i> ₂₁₄		10 27.6 190°48'	0°7/28.2	18		164619	1992 <i>EF</i> ₄		10 27.6 257°28'	1°5/26.4	18	
9 18	2 37.86	+17 0.7	1.940	2.724	15.7	21.8	9 18	2 34.64	+11 14.5	1.988	2.793	14.7	20.5
9 28	2 33.41	+16 48.0	1.851	2.724	12.6	21.6	9 28	2 30.86	+10 45.3	1.893	2.781	11.6	20.3
10 8	2 26.53	+16 22.4	1.783	2.722	8.9	21.3	10 8	2 24.79	+10 6.6	1.820	2.768	8.0	20.1
10 18	2 17.74	+15 45.2	1.740	2.720	4.6	21.1	10 18	2 16.92	+ 9 21.3	1.771	2.756	4.0	19.8
10 28	2 7.96	+14 59.4	1.725	2.718	0.7	20.8	10 28	2 8.06	+ 8 33.9	1.751	2.743	1.6	19.6
11 7	1 58.29	+14 10.3	1.739	2.715	4.5	21.1	11 7	1 59.21	+ 7 49.9	1.760	2.729	5.3	19.8
11 17	1 49.78	+13 23.8	1.781	2.712	8.7	21.3	11 17	1 51.36	+ 7 14.5	1.796	2.716	9.4	20.1
11 27	1 43.29	+12 45.5	1.849	2.708	12.5	21.5	11 27	1 45.36	+ 6 52.0	1.857	2.702	13.0	20.3
238921	2006 <i>AQ</i> ₃₇		10 27.6 84°63'	8°1/3.8	18		177790	2005 <i>LD</i> ₂₁		10 27.6 66°31'	2°1/26.3	16	
9 18	2 41.38	+35 45.8	1.804	2.507	19.4	20.2	9 18	2 38.61	+11 26.6	1.349	2.173	19.3	20.1
9 28	2 36.75	+36 30.5	1.735	2.527	16.8	20.0	9 28	2 34.44	+10 44.3	1.300	2.198	15.1	19.9
10 8	2 29.07	+36 51.2	1.683	2.547	13.9	19.9	10 8	2 27.32	+ 9 50.3	1.270	2.223	10.2	19.7
10 18	2 19.05	+36 43.4	1.651	2.568	10.9	19.7	10 18	2 18.09	+ 8 49.8	1.263	2.248	5.0	19.5
10 28	2 7.92	+36 5.9	1.644	2.588	8.6	19.6	10 28	2 8.03	+ 7 50.2	1.281	2.273	2.3	19.4
11 7	1 57.15	+35 2.3	1.662	2.607	8.2	19.7	11 7	1 58.55	+ 6 59.3	1.327	2.297	6.6	19.7
11 17	1 48.05	+33 40.3	1.707	2.626	9.8	19.8	11 17	1 50.84	+ 6 23.1	1.398	2.322	11.2	20.1
11 27	1 41.61	+32 10.6	1.777	2.646	12.4	20.0	11 27	1 45.71	+ 6 5.3	1.492	2.347	15.1	20.4
458424	2011 <i>AX</i> ₃₀		10 27.6 298°64'	5°6/22.4	18		271595	2004 <i>NT</i> ₃₂		10 27.6 42°03'	1°1/27.0	18	
9 18	2 31.46	- 1 30.0	2.186	3.007	13.0	21.1	9 18	2 37.15	+11 57.8	1.278	2.108	19.9	20.2
9 28	2 27.98	- 2 28.4	2.105	2.997	10.4	21.0	9 28	2 33.62	+11 48.4	1.225	2.125	15.6	20.0
10 8	2 22.57	- 3 27.2	2.046	2.988	7.8	20.8	10 8	2 26.97	+11 27.7	1.189	2.143	10.7	19.8
10 18	2 15.69	- 4 20.9	2.014	2.979	5.8	20.7	10 18	2 18.01	+10 59.0	1.177	2.162	5.2	19.6
10 28	2 8.06	- 5 3.6	2.009	2.969	6.0	20.6	10 28	2 8.03	+10 27.5	1.189	2.182	1.2	19.3
11 7	2 0.51	- 5 30.5	2.031	2.960	8.1	20.8	11 7	1 58.55	+ 9 59.8	1.226	2.201	6.2	19.7
11 17	1 53.85	- 5 38.5	2.080	2.951	10.8	20.9	11 17	1 50.84	+ 9 41.7	1.289	2.222	11.1	20.1
11 27	1 48.76	- 5 26.8	2.151	2.942	13.5	21.1	11 27	1 45.83	+ 9 37.2	1.374	2.243	15.3	20.4
488303	2016 <i>UN</i> ₅₆		10 27.6 334°27'	1°2/26.7	18		74599	1999 <i>RF</i> ₃		10 27.6 24°86'	3°3/29.4	18	
9 18	2 32.90	+12 51.1	1.694	2.509	16.4	20.9	9 18	2 35.73	+19 25.7	1.072	1.901	23.0	18.4
9 28	2 29.79	+12 18.6	1.612	2.506	13.0	20.7	9 28	2 33.43	+20 0.3	1.015	1.910	18.6	18.2
10 8	2 24.17	+11 34.0	1.551	2.502	8.9	20.4	10 8	2 27.41	+20 15.8	0.974	1.920	13.5	17.9
10 18	2 16.60	+10 40.6	1.514	2.499	4.4	20.2	10 18	2 18.44	+20 10.7	0.953	1.932	7.9	17.7
10 28	2 8.02	+ 9 43.7	1.504	2.496	1.4	20.0	10 28	2 8.01	+19 47.2	0.955	1.945	3.4	17.5
11 7	1 59.57	+ 8 50.2	1.521	2.493	5.6	20.2	11 7	1 57.99	+19 11.7	0.980	1.959	6.3	17.7
11 17	1 52.33	+ 8 6.2	1.565	2.491	10.0	20.5	11 17	1 50.04	+18 33.2	1.028	1.974	11.6	18.0
11 27	1 47.18	+ 7 36.9	1.632	2.489	13.9	20.7	11 27	1 45.32	+18 1.0	1.097	1.990	16.3	18.4
439060	2011 <i>HE</i> ₅₅		10 27.6 208°37'	3°1/25.1	18		55248	2001 <i>RF</i> ₉₉		10 27.6 308°55'	4°0/24.3	18	
9 18	2 34.88	+ 8 36.6	1.774	2.591	15.7	21.7	9 18	2 31.60	+ 5 46.9	1.811	2.638	15.0	19.1
9 28	2 31.15	+ 7 40.9	1.693	2.589	12.3	21.4	9 28	2 28.59	+ 4 49.4	1.727	2.628	11.8	18.9
10 8	2 25.00	+ 6 35.8	1.634	2.586	8.5	21.2	10 8	2 23.27	+ 3 44.7	1.665	2.618	8.3	18.7
10 18	2 16.99	+ 5 26.2	1.600	2.583	4.6	21.0	10 18	2 16.16	+ 2 38.3	1.628	2.608	4.9	18.5
10 28	2 8.01	+ 4 18.8	1.593	2.580	3.4	20.9	10 28	2 8.10	+ 1 37.0	1.617	2.599	4.4	18.4
11 7	1 59.19	+ 3 20.9	1.615	2.576	6.8	21.1	11 7	2 0.12	+ 0 47.8	1.634	2.589	7.4	18.6
11 17	1 51.55	+ 2 38.3	1.663	2.572	10.8	21.3	11 17	1 53.21	+ 0 15.7	1.677	2.580	11.1	18.8
11 27	1 45.93	+ 2 14.6	1.734	2.568	14.4	21.6	11 27	1 48.19	+ 0 3.7	1.743	2.571	14.5	19.0
19098	1981 <i>EM</i> ₃		10 27.6 332°95'	3°0/29.7	18		378054	2006 <i>TF</i> ₆₀		10 27.6 22°62'</			

EPHEMERIDES

10 27.6

10 27.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V		
156936	2003 <i>FN</i> ₁₁₁	10 27.6 117°46'			5°3'/23.7 18			123820	2001 <i>BV</i> ₇₈	10 27.6 255°69'			4°8'/23.6 18		
9 18	2 36.71	+ 1 46.9	1.735	2.558	15.7	20.2	9 18	2 34.26	- 0 5.9	2.221	3.034	13.0	19.5		
9 28	2 32.46	+ 0 49.0	1.670	2.566	12.4	20.0	9 28	2 30.13	- 0 45.1	2.140	3.029	10.4	19.3		
10 8	2 25.80	- 0 11.3	1.627	2.575	8.9	19.8	10 8	2 24.04	- 1 24.8	2.081	3.024	7.5	19.1		
10 18	2 17.34	- 1 7.7	1.609	2.582	6.0	19.7	10 18	2 16.46	- 2 0.2	2.049	3.019	5.2	19.0		
10 28	2 8.06	- 1 53.3	1.618	2.590	5.7	19.7	10 28	2 8.13	- 2 26.4	2.045	3.014	5.1	19.0		
11 7	1 59.07	- 2 22.3	1.654	2.598	8.3	19.8	11 7	1 59.91	- 2 39.4	2.069	3.009	7.2	19.1		
11 17	1 51.36	- 2 31.3	1.715	2.605	11.7	20.1	11 17	1 52.61	- 2 36.5	2.120	3.003	10.1	19.3		
11 27	1 45.73	- 2 19.7	1.800	2.612	14.9	20.3	11 27	1 46.92	- 2 17.1	2.195	2.998	12.8	19.4		
406786	2008 <i>RN</i> ₈₂	10 27.6 340°74'			9°2'/16.8 18			133549	2003 <i>TP</i> ₂₁	10 27.6 351°01'			8°8'/20.0 18		
9 18	2 26.79	- 6 20.5	1.864	2.703	14.2	20.2	9 18	2 32.58	- 10 50.8	2.026	2.844	14.0	18.8		
9 28	2 24.70	- 8 45.4	1.798	2.693	11.8	20.0	9 28	2 28.97	- 11 58.9	1.964	2.841	11.8	18.6		
10 8	2 20.53	- 11 10.0	1.756	2.683	9.8	19.9	10 8	2 23.29	- 12 59.8	1.923	2.839	9.8	18.5		
10 18	2 14.76	- 13 23.8	1.740	2.675	9.2	19.9	10 18	2 16.08	- 13 46.4	1.906	2.837	8.8	18.5		
10 28	2 8.17	- 15 15.9	1.750	2.667	10.2	19.9	10 28	2 8.15	- 14 12.2	1.915	2.835	9.3	18.5		
11 7	2 1.69	- 16 38.5	1.786	2.659	12.3	20.0	11 7	2 0.40	- 14 13.3	1.949	2.833	10.9	18.6		
11 17	1 56.19	- 17 27.8	1.843	2.653	14.7	20.2	11 17	1 53.70	- 13 48.9	2.006	2.832	13.1	18.7		
11 27	1 52.40	- 17 44.0	1.920	2.647	17.0	20.3	11 27	1 48.73	- 13 0.6	2.085	2.832	15.2	18.9		
201694	2003 <i>UA</i> ₁₂₈	10 27.6 65°57'			3°3'/30.3 18			189000	Alfredkubin	10 27.6 140°39'			0°8'/28.3 17		
9 18	2 34.97	+ 24 7.4	1.756	2.529	17.5	20.0	9 18	2 38.59	+ 17 43.0	1.828	2.614	16.5	21.5		
9 28	2 31.45	+ 24 5.4	1.678	2.536	14.4	19.8	9 28	2 34.03	+ 17 25.6	1.750	2.623	13.2	21.3		
10 8	2 25.32	+ 23 44.5	1.619	2.544	10.7	19.5	10 8	2 26.96	+ 16 54.0	1.693	2.633	9.3	21.1		
10 18	2 17.19	+ 23 4.4	1.583	2.552	6.7	19.3	10 18	2 17.98	+ 16 9.8	1.661	2.641	4.9	20.8		
10 28	2 8.08	+ 22 7.5	1.573	2.559	3.5	19.2	10 28	2 8.08	+ 15 16.7	1.656	2.649	0.8	20.5		
11 7	1 59.18	+ 20 59.6	1.591	2.567	4.9	19.3	11 7	1 58.41	+ 14 20.4	1.680	2.657	4.6	20.8		
11 17	1 51.63	+ 19 48.4	1.636	2.575	8.7	19.5	11 17	1 50.06	+ 13 27.6	1.733	2.664	8.9	21.1		
11 27	1 46.28	+ 18 42.1	1.707	2.583	12.4	19.8	11 27	1 43.85	+ 12 44.1	1.810	2.670	12.6	21.4		
466616	2014 <i>VG</i> ₁₅	10 27.6 47°64'			3°0'/29.6 18			120340	2004 <i>PD</i> ₁₀₆	10 27.6 71°60'			0°0'/27.6 18		
9 18	2 35.76	+ 22 28.3	1.130	1.946	22.8	20.3	9 18	2 32.44	+ 16 36.5	2.066	2.859	14.6	20.0		
9 28	2 33.30	+ 22 20.1	1.069	1.955	18.6	20.1	9 28	2 28.80	+ 15 56.9	1.994	2.873	11.5	19.8		
10 8	2 27.23	+ 21 46.6	1.024	1.965	13.5	19.8	10 8	2 23.13	+ 15 4.6	1.944	2.888	7.9	19.6		
10 18	2 18.31	+ 20 47.7	0.998	1.976	7.9	19.5	10 18	2 15.98	+ 14 2.4	1.919	2.902	4.0	19.4		
10 28	2 8.03	+ 19 28.3	0.996	1.987	3.2	19.3	10 28	2 8.16	+ 12 54.9	1.923	2.917	0.2	19.1		
11 7	1 58.20	+ 17 58.8	1.019	1.998	6.1	19.5	11 7	2 0.58	+ 11 48.0	1.956	2.931	4.2	19.5		
11 17	1 50.39	+ 16 31.6	1.065	2.010	11.4	19.9	11 17	1 54.08	+ 10 47.6	2.017	2.945	8.0	19.7		
11 27	1 45.70	+ 15 18.0	1.133	2.022	16.3	20.2	11 27	1 49.32	+ 9 58.6	2.104	2.960	11.3	20.0		
389705	2011 <i>QC</i> ₉₄	10 27.6 145°90'			3°2'/24.5 18			480017	2014 <i>QB</i> ₄₄₂	10 27.6 17°33'			0°1'/25.9 15		
9 18	2 33.07	+ 8 42.6	2.022	2.834	14.2	21.2	9 18	2 11.28	+ 7 50.4	39.939	40.733	0.9	22.4		
9 28	2 29.33	+ 7 22.6	1.947	2.840	11.1	21.0	9 28	2 10.66	+ 7 46.7	39.857	40.740	0.7	22.4		
10 8	2 23.52	+ 5 53.3	1.894	2.845	7.6	20.8	10 8	2 9.96	+ 7 42.7	39.801	40.748	0.5	22.3		
10 18	2 16.18	+ 4 20.3	1.869	2.850	4.2	20.6	10 18	2 9.21	+ 7 38.7	39.723	40.756	0.2	22.3		
10 28	2 8.13	+ 2 50.8	1.872	2.855	3.6	20.6	10 28	2 8.43	+ 7 34.7	39.775	40.764	0.1	22.3		
11 7	2 0.28	+ 1 32.0	1.904	2.859	6.5	20.8	11 7	2 7.65	+ 7 31.0	39.807	40.772	0.3	22.3		
11 17	1 53.48	+ 0 29.6	1.964	2.864	9.9	21.0	11 17	2 6.90	+ 7 27.7	39.869	40.780	0.5	22.4		
11 27	1 48.42	- 0 13.0	2.049	2.867	13.0	21.2	11 27	2 6.22	+ 7 25.0	39.960	40.788	0.8	22.4		
75255	1999 <i>XD</i> ₆	10 27.6 114°78'			3°0'/25.7 18			139455	2001 <i>OC</i> ₇₁	10 27.6 32°49'			4°2'/24.8 18		
9 18	2 41.69	+ 6 45.8	1.705	2.514	16.6	18.9	9 18	2 33.21	+ 5 32.2	1.470	2.307	17.4	19.0		
9 28	2 36.37	+ 6 21.2	1.641	2.531	13.0	18.8	9 28	2 30.06	+ 4 47.4	1.416	2.322	13.6	18.8		
10 8	2 28.47	+ 5 51.3	1.599	2.547	8.9	18.6	10 8	2 24.30	+ 3 57.4	1.382	2.337	9.4	18.6		
10 18	2 18.68	+ 5 20.2	1.581	2.563	4.8	18.3	10 18	2 16.63	+ 3 8.1	1.372	2.354	5.4	18.4		
10 28	2 8.04	+ 4 52.9	1.591	2.578	3.2	18.3	10 28	2 8.14	+ 2 26.6	1.387	2.371	4.4	18.4		
11 7	1 57.77	+ 4 34.4	1.629	2.593	6.5	18.5	11 7	2 0.03	+ 1 58.8	1.429	2.389	7.6	18.6		
11 17	1 48.95	+ 4 28.3	1.695	2.607	10.4	18.8	11 17	1 53.37	+ 1 48.8	1.495	2.407	11.6	18.9		
11 27	1 42.39	+ 4 36.6	1.785	2.620	14.0	19.0	11 27	1 48.94	+ 1 57.9	1.584	2.426	15.1	19.2		
190014	2004 <i>NH</i> ₂₂	10 27.6 33°47'			4°3'/30.2 18			107709	2001 <i>FN</i> ₁₉	10 27.6 68°82'			0°8'/27.1 17		
9 18	2 37.11	+ 22 27.6	1.305	2.105	21.1	19.1	9 18	2 35.58	+ 15 30.7	1.399	2.217	19.1	19.5		
9 28	2 33.98	+ 23 5.1	1.242	2.117	17.3	18.9	9 28	2 32.21	+ 14 42.5	1.337	2.231	15.1	19.3		
10 8	2 27.52	+ 23 23.3	1.197	2.130	12.9	18.7	10 8	2 25.93	+ 13 37.6	1.295	2.246	10.3	19.1		
10 18	2 18.43	+ 23 20.2	1.172	2.143	8.1	18.5	10 18	2 17.50	+ 12 20.0	1.276	2.261	5.1	18.8		
10 28	2 8.04	+ 22 56.6	1.171	2.157	4.5	18.3	10 28	2 8.11	+ 10 57.5	1.282	2.276	1.0	18.6		
11 7	1 58.00	+ 22 18.0	1.196	2.172	6.1	18.4	11 7	1 59.13	+ 9 39.2	1.316	2.290	5.9	19.0		
11 17	1 49.77	+ 21 32.4	1.245	2.187	10.4	18.7	11 17	1 51.77	+ 8 33.7	1.375	2.305	10.8	19.3		
11 27	1 44.42	+ 20 49.2	1.317	2.203	14.6	19.0	11 27	1 46.91	+ 7 46.9	1.458	2.320	15.0	19.6		
452235	2015 <i>SX</i> ₇	10 27.6 51°56'			0°9'/26.8 18			322623	1996 <i>EL</i> ₈	10 27.6 276°18'			4°0'/30.9 18		
9 18	2 31.98	+ 16 1.8	1.705	2.514	16.6	20.0	9 18	2 36.52	+ 25 15.0	2.405	3.146	14.2	21.3		
9 28	2 28.78	+ 14 56.3	1.644	2.533	13.0	19.9	9 28	2 32.31	+ 25 43.9	2.289	3.124	11.9	21.1		
10 8	2 23.25	+ 13 35.5	1.603	2.552	8.8	19.7	10 8	2 25.85	+ 26 0.1	2.193	3.102	9.2	20.9		
10 18	2 16.05	+ 12 4.0	1.587	2.572	4.3	19.4	10 18	2 17.54	+ 26 1.8	2.123	3.079	6.3	20.7		
10 28	2 8.14	+ 10 29.2	1.599	2.592	1.0	19.2	10 28	2 8.10	+ 25 48.4	2.079	3.056	4.1	20.5		
11 7	2 0.60	+ 8 59.6	1.640	2.612	5.2	19.6	11 7	1 58.49	+ 25 21.7	2.065	3.033	4.8	20.5		
11 17	1 54.36	+ 7 42.4	1.707	2.633	9.4	19.9	11 17	1 49.69	+ 24 45.8	2.079	3.010	7.6	20.6		
11 27	1 50.11	+ 6 43.2	1.799	2.653	13.0	20.2	11 27	1 42.59	+ 24 6.2	2.121	2.987	10.8	20.8		
159697	2002 <i>PO</i> ₉₄	10 27.6 93°87'			1°7'/25.9 18			420480	2012 <i>EF</i> ₃	10 27.6 242°16'			4°2'/24.9 18		
9 18	2 31.92	+ 9 53.1	2.437	3.238	12.4	20.7	9 18	2 37.46	+ 6 5.5	1.515	2.341	17.5	21.8		
9 28	2 28.03	+ 9 14.7	2.364	3.251	9.7	20.6	9 28	2 33.74	+ 5 17.0	1.434	2.334	13.9	21.5		
10 8	2 22.42	+ 8 29.7	2.314	3.263	6.6	20.4	10 8	2 27.13	+ 4 20.6	1.373	2.326	9.7	21.3		
10 18	2 15.58	+ 7 41.3	2.291	3.275	3.3	20.2	10 18	2 18.23	+ 3 21.9	1.336	2.318	5.6	21.0		
10 28	2 8.16	+ 6 53.7	2.297	3.287	1.9	20.1	10 28	2 8.08	+ 2 28.6	1.326	2.309	4.6	20.9		
11 7	2 0.94	+ 6 11.3	2.333	3.298	4.6	20.3	11 7	1 58.04	+ 1 48.3	1.342	2.301	8.1	21.1		
11 17	1 54.58	+ 5 37.6	2.397	3.310	7.7	20.5	11 17	1 49.38	+ 1 26.5	1.383	2.292	12.5	21.3		
11 27	1 49.68	+ 5 15.6	2.487	3.322	10.5	20.8	1								

EPHEMERIDES

10 27.6

10 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
228478	2001 <i>SS</i> ₇₃	10 27.6 332°10		3°4/29.6 18			485866	2012 <i>FN</i> ₁₄	10 27.6 186°59		4°4/22.3 18		
9 18	2 32.95	+20 37.8	1.318	2.131	20.3	19.5	9 18	2 31.25	- 1 12.7	2.943	3.749	10.4	22.3
9 28	2 31.00	+21 3.0	1.233	2.118	16.7	19.2	9 28	2 27.24	- 2 13.1	2.865	3.749	8.2	22.1
10 8	2 25.77	+21 10.4	1.165	2.105	12.4	18.9	10 8	2 21.78	- 3 14.0	2.811	3.748	6.1	22.0
10 18	2 17.76	+20 58.4	1.117	2.093	7.5	18.6	10 18	2 15.27	- 4 10.9	2.785	3.747	4.6	21.9
10 28	2 8.10	+20 27.9	1.093	2.082	3.5	18.3	10 28	2 8.25	- 4 59.6	2.788	3.745	4.7	21.9
11 7	1 58.37	+19 44.1	1.094	2.073	6.0	18.4	11 7	2 1.32	- 5 36.2	2.820	3.743	6.4	22.0
11 17	1 50.17	+18 55.2	1.119	2.063	11.0	18.7	11 17	1 55.07	- 5 58.4	2.881	3.740	8.5	22.1
11 27	1 44.77	+18 10.8	1.166	2.055	15.9	19.0	11 27	1 50.00	- 6 5.1	2.966	3.737	10.6	22.3
229285	2005 <i>CQ</i> ₁₂	10 27.6 310°70		0°8/28.4 17			304984	2007 <i>TZ</i> ₂₁₆	10 27.6 67°60		2°1/29.5 18		
9 18	2 31.24	+17 33.6	2.205	2.993	13.9	21.2	9 18	2 33.36	+22 32.6	1.822	2.601	16.8	21.2
9 28	2 28.00	+17 18.8	2.109	2.983	11.2	21.0	9 28	2 30.04	+22 5.2	1.742	2.607	13.6	21.0
10 8	2 22.73	+16 51.9	2.034	2.974	7.9	20.8	10 8	2 24.28	+21 18.9	1.681	2.613	9.9	20.8
10 18	2 15.88	+16 14.3	1.984	2.964	4.2	20.5	10 18	2 16.69	+20 15.0	1.645	2.620	5.7	20.5
10 28	2 8.18	+15 28.8	1.962	2.955	0.8	20.3	10 28	2 8.20	+18 57.3	1.636	2.626	2.2	20.3
11 7	2 0.51	+14 39.9	1.968	2.945	4.0	20.5	11 7	1 59.94	+17 32.7	1.655	2.632	4.4	20.5
11 17	1 53.73	+13 52.8	2.003	2.936	7.7	20.7	11 17	1 52.92	+16 9.4	1.701	2.639	8.5	20.7
11 27	1 48.59	+13 12.6	2.064	2.927	11.2	20.9	11 27	1 47.95	+14 55.0	1.774	2.645	12.3	21.0
136687	1995 <i>SH</i> ₃₆	10 27.6 68°55		1°1/28.3 16			99588	2002 <i>GH</i> ₁₇	10 27.6 101°96		1°1/26.7 18		
9 18	2 41.92	+17 8.2	1.359	2.163	20.2	20.9	9 18	2 34.64	+10 53.3	2.423	3.216	12.7	20.1
9 28	2 37.16	+17 5.7	1.308	2.191	16.1	20.8	9 28	2 30.17	+10 35.0	2.349	3.230	9.9	19.9
10 8	2 29.27	+16 47.4	1.275	2.219	11.2	20.6	10 8	2 23.92	+10 10.4	2.299	3.245	6.8	19.8
10 18	2 19.12	+16 14.9	1.265	2.247	5.9	20.3	10 18	2 16.37	+ 9 41.7	2.275	3.259	3.3	19.6
10 28	2 8.08	+15 32.5	1.281	2.274	1.1	20.1	10 28	2 8.22	+ 9 12.2	2.281	3.273	1.2	19.4
11 7	1 57.64	+14 47.1	1.324	2.302	5.3	20.5	11 7	2 0.26	+ 8 45.5	2.316	3.286	4.2	19.7
11 17	1 49.10	+14 6.1	1.393	2.329	10.2	20.8	11 17	1 53.23	+ 8 25.0	2.381	3.300	7.5	19.9
11 27	1 43.32	+13 35.8	1.486	2.356	14.3	21.1	11 27	1 47.72	+ 8 13.4	2.472	3.313	10.3	20.1
515699	2014 <i>QL</i> ₁₇₃	10 27.6 92°08		2°0/25.7 18			88869	2001 <i>ST</i> ₂₅₆	10 27.6 167°31		1°0/26.8 18		
9 18	2 32.37	+ 9 26.8	2.341	3.144	12.8	22.2	9 18	2 37.22	+12 51.6	1.958	2.755	15.1	20.0
9 28	2 28.43	+ 8 43.2	2.271	3.159	10.0	22.0	9 28	2 32.79	+12 20.9	1.876	2.759	12.0	19.8
10 8	2 22.73	+ 7 53.0	2.224	3.173	6.7	21.8	10 8	2 26.04	+11 39.8	1.816	2.762	8.2	19.6
10 18	2 15.75	+ 6 59.7	2.203	3.187	3.5	21.7	10 18	2 17.55	+10 51.0	1.781	2.765	4.1	19.3
10 28	2 8.20	+ 6 7.9	2.212	3.201	2.2	21.6	10 28	2 8.18	+ 9 59.1	1.775	2.767	1.1	19.1
11 7	2 0.86	+ 5 22.2	2.250	3.214	4.9	21.8	11 7	1 58.98	+ 9 9.8	1.798	2.769	5.0	19.4
11 17	1 54.44	+ 4 46.5	2.317	3.228	8.1	22.0	11 17	1 50.92	+ 8 28.4	1.849	2.770	9.1	19.7
11 27	1 49.52	+ 4 23.5	2.409	3.241	10.9	22.2	11 27	1 44.80	+ 7 59.3	1.925	2.771	12.6	19.9
405284	2003 <i>SC</i> ₄₂₂	10 27.6 163°63		3°3/30.8 18			859	Bouzaréah	10 27.6 339°75		0°2/27.5 18		
9 18	2 34.96	+24 40.9	2.505	3.249	13.6	21.8	9 18	2 35.84	+11 58.5	2.117	2.914	14.2	14.5
9 28	2 30.71	+24 57.2	2.412	3.250	11.3	21.7	9 28	2 31.65	+12 13.5	2.027	2.908	11.3	14.2
10 8	2 24.48	+25 0.4	2.340	3.252	8.5	21.5	10 8	2 25.29	+12 22.3	1.958	2.903	7.8	14.0
10 18	2 16.73	+24 49.8	2.293	3.253	5.6	21.3	10 18	2 17.20	+12 25.8	1.915	2.899	3.9	13.8
10 28	2 8.17	+24 26.0	2.274	3.254	3.4	21.2	10 28	2 8.19	+12 26.1	1.901	2.894	0.3	13.5
11 7	1 59.68	+23 51.9	2.284	3.255	4.2	21.2	11 7	1 59.22	+12 26.0	1.915	2.890	4.3	13.8
11 17	1 52.09	+23 11.5	2.324	3.256	6.9	21.4	11 17	1 51.21	+12 28.4	1.958	2.887	8.2	14.0
11 27	1 46.11	+22 30.2	2.390	3.257	9.7	21.6	11 27	1 44.97	+12 36.6	2.027	2.884	11.6	14.2
287187	2002 <i>RA</i> ₂₉₁	10 27.6 33°65		9°3/21.3 18			516363	2017 <i>CV</i> ₅	10 27.6 44°70		2°8/25.6 18		
9 18	2 33.06	- 5 33.3	1.415	2.259	17.5	19.3	9 18	2 35.31	+ 5 55.7	2.008	2.820	14.3	21.0
9 28	2 29.99	- 7 1.5	1.372	2.273	14.3	19.2	9 28	2 31.14	+ 5 37.8	1.933	2.825	11.2	20.8
10 8	2 24.26	- 8 24.4	1.349	2.287	11.2	19.0	10 8	2 24.82	+ 5 16.1	1.881	2.831	7.7	20.6
10 18	2 16.62	- 9 32.2	1.349	2.302	9.4	19.0	10 18	2 16.90	+ 4 54.1	1.855	2.836	4.2	20.4
10 28	2 8.18	-10 15.8	1.372	2.318	9.8	19.1	10 28	2 8.21	+ 4 35.7	1.856	2.842	3.0	20.3
11 7	2 0.19	-10 30.0	1.420	2.335	12.0	19.2	11 7	1 59.69	+ 4 25.1	1.886	2.848	5.8	20.5
11 17	1 53.70	-10 14.0	1.490	2.352	14.9	19.5	11 17	1 52.25	+ 4 25.1	1.943	2.854	9.3	20.7
11 27	1 49.47	- 9 30.3	1.579	2.370	17.6	19.7	11 27	1 46.61	+ 4 37.6	2.025	2.861	12.5	21.0
409074	2003 <i>SA</i> ₂₈₀	10 27.6 25°15		2°6/29.9 17			126524	2002 <i>CZ</i> ₈₁	10 27.6 126°61		2°6/25.5 18		
9 18	2 30.18	+23 15.7	1.744	2.530	17.1	20.5	9 18	2 36.34	+ 8 37.6	1.964	2.771	14.7	20.5
9 28	2 27.60	+22 56.8	1.673	2.542	13.9	20.3	9 28	2 31.93	+ 7 52.5	1.893	2.783	11.5	20.3
10 8	2 22.61	+22 18.8	1.622	2.554	10.2	20.1	10 8	2 25.34	+ 7 0.1	1.844	2.794	7.9	20.1
10 18	2 15.83	+21 22.8	1.594	2.567	6.1	19.9	10 18	2 17.14	+ 6 4.6	1.822	2.805	4.2	19.9
10 28	2 8.21	+20 12.5	1.593	2.581	2.7	19.8	10 28	2 8.20	+ 5 11.5	1.828	2.815	2.8	19.8
11 7	2 0.86	+18 54.8	1.618	2.596	4.5	19.9	11 7	1 59.52	+ 4 26.4	1.862	2.825	5.9	20.1
11 17	1 54.77	+17 37.5	1.671	2.612	8.4	20.2	11 17	1 51.98	+ 3 53.8	1.925	2.835	9.5	20.3
11 27	1 50.71	+16 28.2	1.749	2.628	12.0	20.4	11 27	1 46.32	+ 3 36.6	2.012	2.844	12.7	20.5
406785	2008 <i>RZ</i> ₇₆	10 27.6 331°91		2°2/29.4 17			54224	2000 <i>JM</i> ₆	10 27.7 12°59		8°0/22.3 18		
9 18	2 34.95	+19 30.6	2.220	2.993	14.3	20.7	9 18	2 35.29	- 5 46.2	1.655	2.484	16.1	18.2
9 28	2 30.97	+19 53.6	2.126	2.988	11.6	20.5	9 28	2 31.54	- 6 40.6	1.593	2.486	13.1	18.1
10 8	2 24.82	+20 5.9	2.053	2.983	8.5	20.3	10 8	2 25.30	- 7 30.3	1.552	2.488	10.2	17.9
10 18	2 16.96	+20 7.2	2.006	2.979	5.0	20.1	10 18	2 17.19	- 8 7.9	1.535	2.491	8.2	17.8
10 28	2 8.17	+19 58.3	1.986	2.975	2.3	19.9	10 28	2 8.20	- 8 26.2	1.543	2.494	8.4	17.8
11 7	1 59.38	+19 41.8	1.995	2.970	4.1	20.0	11 7	1 59.49	- 8 20.9	1.576	2.497	10.6	17.9
11 17	1 51.54	+19 21.7	2.032	2.967	7.5	20.2	11 17	1 52.08	- 7 50.9	1.633	2.501	13.4	18.1
11 27	1 45.43	+19 2.6	2.096	2.963	10.8	20.4	11 27	1 46.79	- 6 57.8	1.712	2.506	16.3	18.3
118247	1997 <i>TH</i> ₁	10 27.6 30°71		1°7/28.7 18			236481	2006 <i>FM</i> ₃₄	10 2				

EPHEMERIDES

10 27.7

10 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
302145	2001 SC ₈₉		10 27.7 39°94	0°2/27.8 18			196652	2003 SG ₃₀		10 27.7 357°02	0°0/27.7 18		
9 18	2 32.99	+16 16.2	1.747	2.551	16.4	20.6	9 18	2 31.09	+15 18.6	1.942	2.745	15.0	19.9
9 28	2 29.74	+15 51.0	1.674	2.559	13.0	20.4	9 28	2 28.10	+14 59.6	1.858	2.743	11.9	19.7
10 8	2 24.08	+15 12.1	1.621	2.567	9.0	20.2	10 8	2 22.90	+14 28.9	1.796	2.742	8.3	19.4
10 18	2 16.60	+14 21.8	1.592	2.575	4.6	20.0	10 18	2 16.03	+13 48.5	1.758	2.741	4.2	19.2
10 28	2 8.24	+13 24.8	1.590	2.584	0.2	19.6	10 28	2 8.28	+13 2.4	1.747	2.740	0.1	18.8
11 7	2 0.11	+12 27.4	1.616	2.592	4.7	20.0	11 7	2 0.65	+12 15.7	1.764	2.740	4.5	19.2
11 17	1 53.21	+11 36.0	1.669	2.602	9.0	20.3	11 17	1 54.05	+11 33.9	1.809	2.741	8.5	19.5
11 27	1 48.35	+10 56.1	1.746	2.611	12.8	20.5	11 27	1 49.27	+11 1.9	1.878	2.741	12.1	19.7
367965	2012 DV ₈₆		10 27.7 158°68	3°1/23.9 18			273568	2007 BP ₁₀₁		10 27.7 225°74	4°1/24.9 18		
9 18	2 31.41	+ 4 2.8	2.844	3.647	10.7	21.8	9 18	2 37.56	+ 4 53.6	1.672	2.492	16.3	20.8
9 28	2 27.40	+ 3 10.3	2.766	3.653	8.4	21.6	9 28	2 33.48	+ 4 15.9	1.593	2.489	12.9	20.6
10 8	2 21.92	+ 2 14.7	2.712	3.658	5.9	21.4	10 8	2 26.78	+ 3 33.0	1.535	2.486	9.0	20.3
10 18	2 15.36	+ 1 19.9	2.687	3.663	3.7	21.3	10 18	2 18.03	+ 2 50.1	1.502	2.482	5.3	20.1
10 28	2 8.29	+ 0 29.9	2.691	3.667	3.4	21.3	10 28	2 8.21	+ 2 13.3	1.495	2.478	4.3	20.0
11 7	2 1.34	- 0 11.3	2.725	3.671	5.4	21.4	11 7	1 58.54	+ 1 48.7	1.516	2.474	7.5	20.2
11 17	1 55.12	- 0 40.8	2.788	3.675	7.8	21.6	11 17	1 50.14	+ 1 40.4	1.563	2.469	11.5	20.4
11 27	1 50.12	- 0 56.8	2.876	3.678	10.2	21.8	11 27	1 43.93	+ 1 50.5	1.633	2.465	15.2	20.7
287809	2003 SR ₁₇₅		10 27.7 91°77	0°3/27.5 18			54247	2000 JN ₂₄		10 27.7 82°03	3°1/30.1 18		
9 18	2 38.77	+14 13.6	1.419	2.233	19.1	20.9	9 18	2 36.74	+22 27.7	1.965	2.732	16.1	19.2
9 28	2 34.91	+14 2.4	1.349	2.240	15.2	20.6	9 28	2 32.60	+22 43.9	1.884	2.740	13.2	19.0
10 8	2 27.98	+13 37.9	1.297	2.246	10.5	20.4	10 8	2 26.03	+22 45.4	1.823	2.747	9.7	18.8
10 18	2 18.67	+13 2.3	1.268	2.252	5.3	20.1	10 18	2 17.61	+22 31.5	1.786	2.755	6.1	18.6
10 28	2 8.17	+12 20.3	1.265	2.259	0.4	19.8	10 28	2 8.23	+22 3.5	1.777	2.762	3.2	18.5
11 7	1 57.93	+11 38.5	1.289	2.265	5.8	20.2	11 7	1 59.01	+21 25.3	1.795	2.770	4.6	18.6
11 17	1 49.31	+11 3.9	1.338	2.271	10.8	20.5	11 17	1 50.98	+20 42.3	1.842	2.778	8.1	18.8
11 27	1 43.31	+10 42.1	1.411	2.277	15.2	20.8	11 27	1 44.98	+20 1.1	1.914	2.785	11.5	19.0
516713	2009 AP ₁₁		10 27.7 254°20	7°5/21.0 18			358713	2008 AU ₁₂₉		10 27.7 260°83	8°6/20.8 18		
9 18	2 35.68	- 6 13.2	2.080	2.894	13.8	22.4	9 18	2 36.86	-10 37.7	2.046	2.854	14.2	20.8
9 28	2 31.53	- 7 23.6	1.996	2.878	11.4	22.2	9 28	2 32.39	-11 36.0	1.975	2.847	11.9	20.7
10 8	2 25.20	- 8 32.0	1.934	2.861	9.0	22.0	10 8	2 25.72	-12 27.3	1.925	2.840	9.8	20.5
10 18	2 17.17	- 9 31.2	1.897	2.844	7.6	21.9	10 18	2 17.41	-13 4.6	1.900	2.833	8.7	20.4
10 28	2 8.23	-10 14.3	1.887	2.827	8.0	21.9	10 28	2 8.27	-13 21.6	1.901	2.826	9.0	20.5
11 7	1 59.32	-10 35.8	1.904	2.809	10.0	22.0	11 7	1 59.29	-13 14.5	1.929	2.818	10.7	20.6
11 17	1 51.37	-10 33.2	1.946	2.791	12.7	22.1	11 17	1 51.39	-12 42.4	1.980	2.811	13.0	20.7
11 27	1 45.18	-10 6.5	2.010	2.772	15.3	22.3	11 27	1 45.31	-11 47.0	2.053	2.804	15.3	20.8
100985	1998 QW ₃₀		10 27.7 50°52	0°9/26.9 18			395055	2009 EX ₂₂		10 27.7 29°80	0°1/27.6 18		
9 18	2 33.63	+13 16.1	1.863	2.669	15.4	19.5	9 18	2 33.57	+15 12.1	1.697	2.506	16.7	21.1
9 28	2 29.86	+12 45.1	1.804	2.692	12.1	19.4	9 28	2 30.32	+14 51.6	1.622	2.510	13.2	20.9
10 8	2 23.92	+12 3.8	1.766	2.715	8.2	19.2	10 8	2 24.57	+14 18.2	1.567	2.515	9.2	20.7
10 18	2 16.41	+11 15.7	1.754	2.739	4.0	19.0	10 18	2 16.90	+13 34.2	1.536	2.520	4.6	20.4
10 28	2 8.26	+10 25.4	1.769	2.762	1.0	18.8	10 28	2 8.29	+12 44.2	1.532	2.525	0.2	20.1
11 7	2 0.44	+ 9 38.7	1.813	2.786	4.8	19.1	11 7	1 59.87	+11 54.2	1.555	2.531	4.9	20.5
11 17	1 53.84	+ 9 0.4	1.884	2.810	8.6	19.4	11 17	1 52.72	+11 10.5	1.605	2.537	9.4	20.8
11 27	1 49.12	+ 8 34.3	1.980	2.834	12.0	19.7	11 27	1 47.67	+10 38.4	1.679	2.544	13.2	21.0
185451	2006 YS ₃₀		10 27.7 13°56	0°1/27.7 18			310017	2009 LS ₄		10 27.7 197°05	1°2/28.9 18		
9 18	2 33.69	+14 42.8	1.838	2.642	15.7	20.8	9 18	2 34.23	+19 41.8	2.438	3.205	13.3	22.0
9 28	2 30.24	+14 34.5	1.758	2.643	12.5	20.6	9 28	2 30.11	+19 18.8	2.342	3.203	10.7	21.9
10 8	2 24.43	+14 15.3	1.699	2.645	8.7	20.4	10 8	2 24.07	+18 43.1	2.268	3.200	7.7	21.7
10 18	2 16.80	+13 46.8	1.664	2.647	4.4	20.1	10 18	2 16.56	+17 55.6	2.220	3.197	4.2	21.4
10 28	2 8.24	+13 12.5	1.656	2.650	0.2	19.8	10 28	2 8.31	+16 59.2	2.201	3.193	1.2	21.2
11 7	1 59.82	+12 37.5	1.677	2.653	4.6	20.1	11 7	2 0.13	+15 58.3	2.212	3.189	3.6	21.4
11 17	1 52.55	+12 6.8	1.724	2.656	8.8	20.4	11 17	1 52.84	+14 58.3	2.253	3.184	7.1	21.6
11 27	1 47.25	+11 45.1	1.796	2.660	12.5	20.6	11 27	1 47.12	+14 4.3	2.320	3.179	10.3	21.8
345505	2006 JO ₅₃		10 27.7 236°89	4°3/24.7 18			487420	2014 QD ₄₀₇		10 27.7 109°89	2°9/30.3 17		
9 18	2 38.36	+ 2 14.4	1.984	2.794	14.5	20.9	9 18	2 35.86	+22 58.5	2.445	3.196	13.7	21.7
9 28	2 33.71	+ 1 47.1	1.897	2.786	11.5	20.7	9 28	2 31.44	+23 18.6	2.357	3.202	11.3	21.5
10 8	2 26.74	+ 1 17.9	1.831	2.777	8.2	20.5	10 8	2 25.01	+23 26.6	2.291	3.208	8.4	21.3
10 18	2 17.96	+ 0 51.2	1.792	2.768	5.1	20.3	10 18	2 17.05	+23 21.8	2.250	3.214	5.3	21.1
10 28	2 8.21	+ 0 32.1	1.781	2.759	4.5	20.2	10 28	2 8.29	+23 5.0	2.236	3.219	3.1	21.0
11 7	1 58.52	+ 0 24.9	1.798	2.749	7.1	20.4	11 7	1 59.63	+22 38.8	2.253	3.225	4.1	21.1
11 17	1 49.90	+ 0 32.4	1.842	2.739	10.6	20.6	11 17	1 51.89	+22 7.2	2.298	3.231	6.9	21.3
11 27	1 43.17	+ 0 55.9	1.911	2.729	13.9	20.8	11 27	1 45.80	+21 35.1	2.370	3.236	9.8	21.5
431712	2008 ES ₁₂₀		10 27.7 293°40	0°5/27.3 18			292679	2006 UR ₈₄		10 27.7 351°59	2°0/29.2 18		
9 18	2 35.57	+13 49.5	1.417	2.238	18.7	21.2	9 18	2 32.38	+20 11.1	1.713	2.508	17.1	20.6
9 28	2 32.77	+13 35.9	1.325	2.220	15.1	20.9	9 28	2 29.57	+20 7.1	1.629	2.504	13.9	20.3
10 8	2 26.85	+13 8.5	1.252	2.203	10.6	20.6	10 8	2 24.19	+19 46.9	1.564	2.502	10.0	20.1
10 18	2 18.30	+12 29.0	1.201	2.186	5.3	20.2	10 18	2 16.78	+19 11.0	1.522	2.499	5.7	19.9
10 28	2 8.19	+11 42.1	1.175	2.169	0.7	19.9	10 28	2 8.31	+18 22.1	1.506	2.497	2.1	19.6
11 7	1 57.96	+10 54.8	1.176	2.152	6.2	20.2	11 7	1 59.93	+17 26.0	1.518	2.496	4.7	19.8
11 17	1 49.11	+10 14.9	1.201	2.135	11.6	20.5	11 17	1 52.78	+16 29.6	1.556	2.495	9.0	20.1
11 27	1 42.86	+ 9 49.4	1.249	2.119	16.5	20.7	11 27	1 47.77	+15 40.2	1.619	2.495	13.0	20.3
520132	2014 BR ₆₇		10 27.7 107°00	8°3/21.1 18			140181	2001 SZ ₂₀₁		10 27.7 106°03	1°9/26.0 18		
9 18	2 37.74	- 8 25.9	1.923	2.736									

EPHEMERIDES

10 27.7

10 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
482459	2012 <i>FK</i> ₇₂		10 27.7 200°44	2°2/25.9	17		50002	2000 <i>AB</i> ₁₆		10 27.7 206°13	2°9/29.7	18	R
9 18	2 39.54	+ 4 42.2	2.762	3.547	11.5	20.8	9 18	2 38.37	+21 27.1	1.663	2.444	18.0	19.1
9 28	2 33.89	+ 4 45.2	2.668	3.544	9.1	20.6	9 28	2 34.47	+21 36.8	1.576	2.442	14.8	18.9
10 8	2 26.47	+ 4 47.0	2.599	3.541	6.3	20.4	10 8	2 27.70	+21 29.9	1.509	2.440	10.9	18.6
10 18	2 17.73	+ 4 49.4	2.558	3.538	3.4	20.2	10 18	2 18.62	+21 5.5	1.465	2.438	6.5	18.4
10 28	2 8.29	+ 4 54.7	2.548	3.534	2.3	20.1	10 28	2 8.28	+20 25.2	1.447	2.436	3.0	18.1
11 7	1 58.91	+ 5 5.1	2.569	3.530	4.6	20.3	11 7	1 58.02	+19 34.1	1.456	2.433	5.1	18.3
11 17	1 50.32	+ 5 22.3	2.620	3.525	7.5	20.5	11 17	1 49.14	+18 39.5	1.493	2.430	9.5	18.5
11 27	1 43.15	+ 5 47.5	2.699	3.520	10.2	20.6	11 27	1 42.67	+17 49.3	1.554	2.427	13.6	18.8
219583	2001 <i>SM</i> ₃₁₁		10 27.7 331°37	9°9/18.7	17		324852	2007 <i>LZ</i> ₇		10 27.7 120°96	3°2/24.5	18	
9 18	2 26.81	+ 7 49.9	0.938	1.814	21.8	19.3	9 18	2 33.11	+ 3 44.8	2.570	3.376	11.7	21.2
9 28	2 26.64	+ 4 3.5	0.876	1.806	17.1	19.0	9 28	2 28.89	+ 3 7.6	2.498	3.385	9.2	21.0
10 8	2 22.94	- 0 13.3	0.835	1.798	12.4	18.7	10 8	2 23.03	+ 2 28.1	2.448	3.394	6.4	20.9
10 18	2 16.37	- 4 38.0	0.817	1.791	9.9	18.6	10 18	2 15.98	+ 1 49.8	2.426	3.403	3.9	20.7
10 28	2 8.33	- 8 40.5	0.824	1.785	11.9	18.7	10 28	2 8.38	+ 1 16.7	2.434	3.412	3.4	20.7
11 7	2 0.55	-11 55.0	0.854	1.780	16.5	18.9	11 7	2 0.93	+ 0 52.5	2.470	3.421	5.5	20.9
11 17	1 54.61	-14 7.5	0.904	1.775	21.2	19.2	11 17	1 54.32	+ 0 39.7	2.535	3.429	8.2	21.1
11 27	1 51.65	-15 17.3	0.969	1.772	25.3	19.4	11 27	1 49.08	+ 0 39.8	2.626	3.437	10.7	21.3
158240	2001 <i>TD</i> ₃		10 27.7 337°79	0°7/28.1	18		460097	2014 <i>PD</i>		10 27.7 52°31	3°9/24.4	18	
9 18	2 33.96	+14 48.5	1.284	2.113	19.9	20.1	9 18	2 32.92	+ 3 32.1	2.069	2.888	13.7	20.9
9 28	2 31.74	+15 2.9	1.203	2.102	16.0	19.8	9 28	2 29.14	+ 2 49.4	2.003	2.898	10.7	20.7
10 8	2 26.27	+15 4.3	1.140	2.091	11.3	19.5	10 8	2 23.40	+ 2 3.9	1.960	2.909	7.5	20.5
10 18	2 18.06	+14 53.6	1.098	2.082	5.9	19.2	10 18	2 16.21	+ 1 20.4	1.942	2.920	4.7	20.4
10 28	2 8.27	+14 33.4	1.080	2.073	0.7	18.8	10 28	2 8.37	+ 0 43.8	1.953	2.931	4.2	20.4
11 7	1 58.47	+14 9.6	1.086	2.065	5.9	19.1	11 7	2 0.75	+ 0 18.8	1.991	2.942	6.6	20.5
11 17	1 50.20	+13 48.6	1.117	2.059	11.5	19.4	11 17	1 54.15	+ 0 8.2	2.056	2.954	9.7	20.8
11 27	1 44.71	+13 37.3	1.170	2.053	16.3	19.7	11 27	1 49.22	+ 0 13.5	2.146	2.965	12.5	21.0
103157	1999 <i>XU</i> ₂₂₃		10 27.7 319°10	5°5/31.8	18		50031	2000 <i>AH</i> ₄₇		10 27.7 149°97	7°1/21.7	18	R
9 18	2 33.06	+27 50.0	1.658	2.424	18.7	19.4	9 18	2 35.09	- 4 53.3	1.996	2.815	14.1	19.1
9 28	2 30.57	+28 11.4	1.563	2.411	15.8	19.1	9 28	2 30.97	- 6 2.5	1.931	2.818	11.5	18.9
10 8	2 25.20	+28 11.9	1.486	2.398	12.4	18.9	10 8	2 24.72	- 7 9.1	1.888	2.821	8.9	18.7
10 18	2 17.44	+27 48.4	1.430	2.386	8.7	18.7	10 18	2 16.90	- 8 6.3	1.870	2.823	7.3	18.6
10 28	2 8.30	+27 0.9	1.398	2.374	5.8	18.5	10 28	2 8.35	- 8 47.4	1.880	2.826	7.5	18.7
11 7	1 59.11	+25 53.5	1.392	2.363	6.3	18.5	11 7	2 0.00	- 9 7.7	1.916	2.828	9.5	18.8
11 17	1 51.22	+24 34.1	1.412	2.352	9.7	18.6	11 17	1 52.74	- 9 5.2	1.977	2.831	12.1	19.0
11 27	1 45.74	+23 13.1	1.457	2.342	13.6	18.8	11 27	1 47.26	- 8 40.4	2.060	2.832	14.6	19.1
224768	2006 <i>FZ</i> ₁		10 27.7 2°00	9°9/17.1	18		100427	1996 <i>HQ</i> ₁₀		10 27.7 67°95	0°3/27.4	18	
9 18	2 27.94	- 8 42.6	1.772	2.609	14.8	19.5	9 18	2 34.09	+17 10.7	1.786	2.584	16.3	19.6
9 28	2 25.69	-10 57.1	1.718	2.608	12.5	19.3	9 28	2 30.36	+16 13.5	1.724	2.606	12.9	19.4
10 8	2 21.26	-13 7.2	1.687	2.608	10.6	19.2	10 8	2 24.34	+15 1.0	1.684	2.629	8.8	19.2
10 18	2 15.21	-15 2.1	1.680	2.608	9.9	19.2	10 18	2 16.69	+13 37.2	1.668	2.651	4.4	19.0
10 28	2 8.38	-16 32.0	1.699	2.609	10.9	19.2	10 28	2 8.36	+12 8.5	1.680	2.673	0.4	18.7
11 7	2 1.74	-17 30.4	1.742	2.611	12.8	19.3	11 7	2 0.40	+10 42.6	1.721	2.696	4.8	19.1
11 17	1 56.18	-17 55.0	1.806	2.613	15.1	19.5	11 17	1 53.75	+ 9 26.9	1.790	2.718	8.9	19.4
11 27	1 52.42	-17 47.2	1.889	2.617	17.2	19.7	11 27	1 49.08	+ 8 26.8	1.884	2.740	12.4	19.7
319058	2005 <i>WE</i> ₁₆		10 27.7 276°43	2°3/29.9	18		384001	2008 <i>UP</i> ₂₄		10 27.7 146°53	0°8/27.1	18	R
9 18	2 32.26	+23 1.7	2.212	2.977	14.6	21.1	9 18	2 37.66	+12 31.6	1.904	2.702	15.5	21.4
9 28	2 28.88	+22 45.4	2.116	2.971	11.9	20.9	9 28	2 33.23	+12 15.0	1.825	2.708	12.2	21.2
10 8	2 23.40	+22 13.3	2.040	2.966	8.8	20.7	10 8	2 26.43	+11 49.0	1.767	2.713	8.4	21.0
10 18	2 16.30	+21 25.8	1.989	2.960	5.3	20.5	10 18	2 17.83	+11 15.9	1.734	2.718	4.2	20.7
10 28	2 8.34	+20 25.2	1.966	2.954	2.5	20.3	10 28	2 8.32	+10 39.6	1.729	2.722	0.9	20.5
11 7	2 0.46	+19 16.4	1.971	2.948	4.0	20.4	11 7	1 58.99	+10 5.1	1.753	2.726	4.9	20.8
11 17	1 53.54	+18 5.6	2.006	2.942	7.5	20.6	11 17	1 50.84	+ 9 37.2	1.805	2.730	9.0	21.1
11 27	1 48.32	+16 59.3	2.066	2.936	10.9	20.8	11 27	1 44.68	+ 9 20.1	1.882	2.733	12.6	21.3
511398	2014 <i>GR</i> ₅₆		10 27.7 48°75	6°4/23.6	18		511356	2014 <i>FH</i> ₄		10 27.7 144°98	5°7/21.8	18	
9 18	2 37.12	- 2 12.0	1.709	2.533	15.9	20.2	9 18	2 34.76	- 2 20.7	2.371	3.181	12.4	22.6
9 28	2 32.86	- 2 53.3	1.646	2.540	12.7	20.1	9 28	2 30.29	- 3 38.0	2.307	3.192	10.0	22.5
10 8	2 26.16	- 3 32.6	1.605	2.548	9.4	19.9	10 8	2 24.03	- 4 54.9	2.267	3.202	7.5	22.3
10 18	2 17.65	- 4 3.6	1.589	2.556	6.8	19.8	10 18	2 16.49	- 6 5.5	2.255	3.212	5.9	22.3
10 28	2 8.30	- 4 20.1	1.599	2.564	6.7	19.8	10 28	2 8.37	- 7 3.8	2.271	3.221	6.1	22.3
11 7	1 59.25	- 4 18.1	1.635	2.572	9.0	19.9	11 7	2 0.47	- 7 45.2	2.315	3.230	8.0	22.4
11 17	1 51.51	- 3 55.8	1.696	2.581	12.1	20.1	11 17	1 53.49	- 8 7.2	2.386	3.238	10.3	22.6
11 27	1 45.87	- 3 14.0	1.781	2.589	15.1	20.4	11 27	1 48.03	- 8 9.3	2.480	3.246	12.6	22.8
352229	2007 <i>TD</i> ₇₀		10 27.7 15°10	0°9/28.2	18		230441	2002 <i>QT</i> ₅₁		10 27.7 18°71	0°9/26.9	17	
9 18	2 32.62	+16 32.8	1.362	2.185	19.3	20.7	9 18	2 31.69	+12 23.6	2.131	2.935	13.8	20.8
9 28	2 30.22	+16 30.9	1.295	2.189	15.4	20.5	9 28	2 28.29	+12 0.3	2.051	2.938	10.9	20.6
10 8	2 24.85	+16 13.6	1.245	2.195	10.8	20.3	10 8	2 22.90	+11 28.4	1.993	2.941	7.5	20.4
10 18	2 17.16	+15 42.4	1.218	2.201	5.7	20.0	10 18	2 16.02	+10 50.3	1.960	2.944	3.7	20.2
10 28	2 8.31	+15 1.5	1.216	2.209	0.9	19.7	10 28	2 8.39	+10 9.9	1.955	2.948	1.0	20.0
11 7	1 59.72	+14 17.6	1.239	2.217	5.4	20.0	11 7	2 0.90	+ 9 31.8	1.979	2.952	4.5	20.2
11 17	1 52.66	+13 38.0	1.287	2.227	10.4	20.3	11 17	1 54.36	+ 9 0.5	2.031	2.956	8.2	20.5
11 27	1 48.12	+13 9.3	1.357	2.237	14.7	20.6	11 27	1 49.47	+ 8 39.7	2.108	2.960	11.4	20.7
506623	2006 <i>GA</i> ₁₃		10 27.7 108°63										

EPHEMERIDES

10 27.7

10 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
454382	2014 <i>MJ</i> ₅₈		10 27.7	29 ^o 11	2 ^o 3/25.5	18	49453	1998 <i>YD</i> ₁₉		10 27.7	298 ^o 25	5 ^o 5/23.7	18
9 18	2 29.97	+11 24.8	1.879	2.697	14.9	20.9	9 18	2 35.85	- 0 9.0	1.846	2.667	15.0	19.2
9 28	2 27.14	+10 17.8	1.807	2.703	11.6	20.7	9 28	2 31.88	- 0 50.8	1.768	2.662	12.0	19.0
10 8	2 22.19	+ 8 59.7	1.757	2.710	7.9	20.4	10 8	2 25.56	- 1 33.0	1.713	2.658	8.7	18.8
10 18	2 15.67	+ 7 35.4	1.733	2.718	4.0	20.2	10 18	2 17.44	- 2 10.2	1.682	2.653	6.1	18.6
10 28	2 8.41	+ 6 11.7	1.736	2.725	2.5	20.1	10 28	2 8.40	- 2 36.1	1.678	2.648	5.8	18.6
11 7	2 1.36	+ 4 56.1	1.768	2.733	5.8	20.4	11 7	1 59.49	- 2 46.1	1.702	2.644	8.3	18.7
11 17	1 55.39	+ 3 54.6	1.827	2.742	9.6	20.6	11 17	1 51.71	- 2 37.3	1.751	2.640	11.6	18.9
11 27	1 51.19	+ 3 11.3	1.910	2.750	12.9	20.9	11 27	1 45.88	- 2 9.2	1.823	2.635	14.7	19.1
487263	2014 <i>PS</i> ₄₀		10 27.7	269 ^o 65	4 ^o 1/23.5	18	216461	2025 <i>T</i> ₋₂		10 27.7	357 ^o 19	1 ^o 7/29.2	18
9 18	2 30.89	+ 3 34.5	2.274	3.091	12.7	21.4	9 18	2 32.28	+19 31.5	2.146	2.927	14.5	20.2
9 28	2 27.52	+ 2 30.1	2.191	3.086	10.0	21.2	9 28	2 28.92	+19 32.2	2.058	2.926	11.7	20.0
10 8	2 22.31	+ 1 21.4	2.132	3.080	7.1	21.0	10 8	2 23.46	+19 20.5	1.991	2.925	8.4	19.8
10 18	2 15.72	+ 0 13.3	2.099	3.074	4.6	20.8	10 18	2 16.37	+18 56.8	1.948	2.924	4.8	19.6
10 28	2 8.42	- 0 48.3	2.094	3.068	4.5	20.8	10 28	2 8.44	+18 23.2	1.933	2.923	1.8	19.4
11 7	2 1.21	- 1 38.0	2.118	3.062	6.8	21.0	11 7	2 0.58	+17 43.9	1.946	2.923	3.9	19.5
11 17	1 54.85	- 2 11.8	2.169	3.056	9.7	21.1	11 17	1 53.69	+17 3.5	1.987	2.924	7.6	19.8
11 27	1 49.99	- 2 27.6	2.244	3.050	12.5	21.3	11 27	1 48.52	+16 27.5	2.055	2.924	10.9	20.0
224851	2006 <i>YG</i> ₈		10 27.7	317 ^o 27	2 ^o 5/26.2	18	452984	2007 <i>FQ</i> ₁₉		10 27.7	286 ^o 14	2 ^o 7/25.0	18
9 18	2 33.58	+10 1.6	1.327	2.164	18.9	20.5	9 18	2 30.86	+ 8 47.5	2.155	2.967	13.4	21.6
9 28	2 31.29	+ 9 35.2	1.242	2.148	15.1	20.2	9 28	2 27.65	+ 7 47.6	2.068	2.962	10.5	21.4
10 8	2 25.88	+ 8 57.3	1.176	2.133	10.5	19.9	10 8	2 22.49	+ 6 39.2	2.004	2.956	7.2	21.2
10 18	2 17.87	+ 8 11.7	1.133	2.118	5.4	19.5	10 18	2 15.86	+ 5 26.7	1.967	2.950	3.9	21.0
10 28	2 8.35	+ 7 25.1	1.113	2.104	2.7	19.3	10 28	2 8.46	+ 4 16.0	1.958	2.944	3.0	20.9
11 7	1 58.81	+ 6 45.4	1.119	2.091	7.3	19.6	11 7	2 1.15	+ 3 13.0	1.978	2.938	5.8	21.1
11 17	1 50.69	+ 6 19.7	1.149	2.078	12.6	19.8	11 17	1 54.74	+ 2 23.1	2.026	2.932	9.3	21.3
11 27	1 45.19	+ 6 13.1	1.200	2.066	17.3	20.1	11 27	1 49.93	+ 1 49.7	2.098	2.927	12.4	21.5
320113	2007 <i>EP</i> ₁₆₀		10 27.7	191 ^o 56	1 ^o 5/29.3	18	33948	2000 <i>MA</i> ₂		10 27.7	51 ^o 26	3 ^o 3/29.6	18
9 18	2 34.02	+19 58.9	2.803	3.561	12.0	22.1	9 18	2 39.12	+21 19.5	1.141	1.954	22.8	18.4
9 28	2 29.71	+19 52.8	2.705	3.559	9.7	22.0	9 28	2 35.85	+21 33.9	1.088	1.972	18.5	18.2
10 8	2 23.70	+19 36.2	2.630	3.557	7.0	21.8	10 8	2 28.95	+21 26.4	1.051	1.991	13.4	18.0
10 18	2 16.40	+19 9.7	2.581	3.555	4.0	21.6	10 18	2 19.27	+20 56.5	1.035	2.011	7.9	17.7
10 28	2 8.43	+18 35.0	2.562	3.552	1.5	21.4	10 28	2 8.35	+20 7.5	1.041	2.031	3.4	17.6
11 7	2 0.51	+17 55.3	2.573	3.549	3.3	21.5	11 7	1 58.00	+19 7.8	1.073	2.052	6.0	17.8
11 17	1 53.35	+17 14.4	2.614	3.546	6.2	21.7	11 17	1 49.75	+18 7.4	1.129	2.072	11.1	18.1
11 27	1 47.56	+16 36.5	2.683	3.542	9.0	21.9	11 27	1 44.65	+17 16.2	1.206	2.093	15.6	18.5
66032	1998 <i>QK</i> ₆₈		10 27.7	72 ^o 24	3 ^o 9/31.9	18	487842	2015 <i>TF</i> ₈₉		10 27.7	103 ^o 35	0 ^o 7/28.4	18
9 18	2 33.37	+28 39.5	2.211	2.949	15.4	19.1	9 18	2 31.49	+19 14.6	2.237	3.018	14.0	21.3
9 28	2 29.70	+28 27.2	2.131	2.962	12.8	19.0	9 28	2 28.12	+18 34.0	2.149	3.019	11.2	21.2
10 8	2 23.90	+27 56.1	2.070	2.975	9.8	18.8	10 8	2 22.79	+17 39.1	2.082	3.020	7.9	21.0
10 18	2 16.52	+27 5.9	2.034	2.988	6.7	18.6	10 18	2 15.99	+16 31.8	2.041	3.021	4.2	20.7
10 28	2 8.43	+25 58.7	2.024	3.000	4.2	18.5	10 28	2 8.46	+15 16.1	2.029	3.022	0.7	20.5
11 7	2 0.56	+24 39.4	2.043	3.013	4.6	18.5	11 7	2 1.08	+13 58.0	2.046	3.023	3.9	20.7
11 17	1 53.80	+23 14.8	2.091	3.026	7.3	18.7	11 17	1 54.63	+12 43.6	2.092	3.024	7.6	20.9
11 27	1 48.84	+21 52.2	2.165	3.039	10.2	18.9	11 27	1 49.81	+11 38.7	2.165	3.025	10.9	21.2
96099	2193 <i>T</i> ₋₂		10 27.7	78 ^o 51	0 ^o 5/27.3	18	29685	Soibamansoor		10 27.7	245 ^o 85	4 ^o 2/24.9	18
9 18	2 34.53	+14 9.5	2.142	2.935	14.1	20.3	9 18	2 37.14	+ 4 45.3	1.671	2.493	16.3	18.5
9 28	2 30.34	+13 40.8	2.076	2.956	11.1	20.1	9 28	2 33.22	+ 4 6.0	1.592	2.488	12.9	18.2
10 8	2 24.19	+13 2.5	2.032	2.976	7.6	20.0	10 8	2 26.67	+ 3 21.6	1.533	2.483	9.1	18.0
10 18	2 16.61	+12 16.9	2.013	2.997	3.7	19.8	10 18	2 18.08	+ 2 37.2	1.498	2.478	5.4	17.8
10 28	2 8.43	+11 28.2	2.024	3.017	0.5	19.5	10 28	2 8.41	+ 1 59.2	1.490	2.473	4.4	17.7
11 7	2 0.51	+10 41.4	2.064	3.037	4.2	19.9	11 7	1 58.85	+ 1 33.6	1.510	2.467	7.6	17.9
11 17	1 53.66	+10 0.9	2.132	3.057	7.8	20.1	11 17	1 50.56	+ 1 24.6	1.555	2.462	11.6	18.1
11 27	1 48.52	+ 9 30.7	2.226	3.077	11.0	20.4	11 27	1 44.44	+ 1 34.4	1.624	2.456	15.2	18.3
232904	2004 <i>XL</i> ₉₂		10 27.7	5 ^o 88	11 ^o 1/21.9	18	349241	2007 <i>TQ</i> ₈₇		10 27.7	50 ^o 62	2 ^o 0/26.2	18
9 18	2 40.73	-16 50.3	1.737	2.538	16.6	18.9	9 18	2 34.89	+10 4.3	1.753	2.568	15.9	20.9
9 28	2 35.72	-17 24.4	1.680	2.538	14.4	18.8	9 28	2 31.24	+ 9 34.3	1.679	2.573	12.5	20.7
10 8	2 28.12	-17 43.3	1.643	2.540	12.4	18.6	10 8	2 25.18	+ 8 55.7	1.626	2.577	8.6	20.5
10 18	2 18.65	-17 39.6	1.628	2.542	11.2	18.6	10 18	2 17.27	+ 8 12.0	1.597	2.582	4.3	20.3
10 28	2 8.36	-17 7.3	1.637	2.546	11.3	18.6	10 28	2 8.46	+ 7 28.5	1.596	2.586	2.2	20.1
11 7	1 58.46	-16 5.0	1.671	2.550	12.8	18.7	11 7	1 59.84	+ 6 50.9	1.622	2.591	5.8	20.4
11 17	1 50.00	-14 34.9	1.729	2.554	14.9	18.9	11 17	1 52.44	+ 6 24.2	1.675	2.596	9.9	20.6
11 27	1 43.79	-12 41.9	1.808	2.560	17.1	19.0	11 27	1 47.08	+ 6 12.0	1.752	2.601	13.5	20.9
518746	2009 <i>SY</i> ₇₃		10 27.7	136 ^o 14	1 ^o 1/26.7	18	478999	2012 <i>XQ</i> ₁₃₆		10 27.7	5 ^o 39	0 ^o 0/27.7	18
9 18	2 35.71	+ 9 53.8	2.454	3.247	12.6	22.1	9 18	2 30.40	+13 53.2	1.117	1.965	21.0	19.8
9 28	2 31.13	+ 9 47.6	2.371	3.251	9.9	21.9	9 28	2 29.10	+13 57.5	1.054	1.964	16.8	19.6
10 8	2 24.71	+ 9 36.1	2.310	3.256	6.8	21.7	10 8	2 24.47	+13 47.6	1.008	1.966	11.7	19.3
10 18	2 16.91	+ 9 21.2	2.277	3.260	3.4	21.5	10 18	2 17.16	+13 25.5	0.983	1.969	5.9	19.0
10 28	2 8.42	+ 9 5.8	2.272	3.264	1.2	21.3	10 28	2 8.46	+12 56.1	0.980	1.973	0.2	18.6
11 7	2 0.05	+ 8 52.8	2.298	3.268	4.2	21.6	11 7	2 0.00	+12 26.6	1.001	1.980	6.2	19.1
11 17	1 52.55	+ 8 45.2	2.353	3.272	7.5	21.8	11 17	1 53.28	+12 4.2	1.044	1.988	11.8	19.4
11 27	1 46.57	+ 8 45.6	2.434	3.276	10.5	22.0	11 27	1 49.41	+11 55.0	1.109	1.998	16.6	19.7
452572	2005 <i>CV</i> ₂₆		10 27.7	293 ^o 27	6 ^o 3/ 1.9	18	214619	2006 <i>RC</i> ₆₅		10 27.7	341 ^o 95	0 ^o 2/27.6	18
9 18	2 36.89	+31 39.6	2.391	3.099	15.0	21.2	9 18	2 33.26	+14 58.3	1.777	2.583	16.1	20.4
9 28	2 32.90	+32 29.9	2.276	3.078	13.0	21.0	9 28	2 30.08	+14 37.3	1.693	2.580	12.8	20.2
10 8	2 26.50	+33 5.4	2.181	3.057	10.7	20.8	10 8	2 24.48	+14 3.8	1.630	2.577	8.9	19.9
10 18	2 18.07	+33 22.9	2.108	3.035	8.3	20.6	10 18	2 16.97	+13 19.9	1.591	2.574	4.5	19.7
10 28	2 8.37	+33 19.9	2.062	3.014	6.5	20.5	10 28	2 8.47	+12 29.9	1.579	2.572	0.3	19.3
11 7	1 58.45	+32 57.2	2.043	2.992	6.6	20.4	11 7	2 0.08	+11 39.8	1.594	2.570	4.9	19.7</

EPHEMERIDES

10 27.7

10 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
73870	1997 AC ₁₆		10 27.7 332°17'	5°5'/24.4	18		86309	1999 VA ₉₀		10 27.7	0°71'	0°5'/27.4	18
9 18	2 33.31	+ 4 39.7	1.242	2.092	19.2	19.6	9 18	2 28.59	+14 51.0	1.009	1.865	22.1	19.2
9 28	2 31.10	+ 3 46.1	1.170	2.082	15.3	19.4	9 28	2 28.02	+14 33.1	0.946	1.862	17.7	19.0
10 8	2 25.72	+ 2 44.8	1.116	2.073	10.8	19.1	10 8	2 23.94	+13 56.1	0.900	1.860	12.3	18.7
10 18	2 17.78	+ 1 43.2	1.084	2.065	6.6	18.9	10 18	2 16.97	+13 3.3	0.872	1.859	6.2	18.3
10 28	2 8.45	+ 0 50.8	1.076	2.058	5.9	18.8	10 28	2 8.49	+12 2.1	0.867	1.860	0.6	17.9
11 7	2 59.24	+ 0 16.5	1.092	2.051	9.6	19.0	11 7	2 0.25	+11 2.7	0.884	1.863	6.9	18.4
11 17	1 51.58	+ 0 6.0	1.131	2.045	14.3	19.2	11 17	1 53.84	+10 15.2	0.923	1.868	12.8	18.7
11 27	1 46.59	+ 0 21.6	1.190	2.039	18.5	19.5	11 27	1 50.45	+ 9 47.2	0.982	1.874	17.9	19.1
447617	2006 UP ₁₆₁		10 27.7 329°62'	2°2'/25.9	18		77213	2001 FL ₂₃		10 27.7 215°99'	1°2'/26.9	18	
9 18	2 32.54	+10 6.4	1.845	2.662	15.2	21.4	9 18	2 39.34	+11 29.0	1.716	2.521	16.6	20.3
9 28	2 29.35	+ 9 24.1	1.763	2.658	12.0	21.2	9 28	2 35.01	+11 14.1	1.629	2.516	13.2	20.0
10 8	2 23.87	+ 8 32.3	1.703	2.654	8.2	20.9	10 8	2 27.98	+10 49.8	1.563	2.511	9.2	19.8
10 18	2 16.64	+ 7 35.1	1.667	2.651	4.2	20.7	10 18	2 18.80	+10 18.4	1.521	2.505	4.6	19.5
10 28	2 8.49	+ 6 38.0	1.658	2.648	2.4	20.6	10 28	2 8.45	+ 9 44.2	1.507	2.500	1.3	19.3
11 7	2 0.46	+ 5 47.4	1.678	2.645	5.9	20.8	11 7	1 58.16	+ 9 12.5	1.521	2.493	5.6	19.5
11 17	1 53.52	+ 5 8.7	1.724	2.642	9.9	21.0	11 17	1 49.14	+ 8 48.8	1.562	2.487	10.2	19.8
11 27	1 48.46	+ 4 45.9	1.795	2.640	13.4	21.3	11 27	1 42.35	+ 8 37.5	1.627	2.480	14.2	20.0
204024	2003 UU ₇₇		10 27.7 304°37'	2°4'/30.0	17		147799	2005 RA ₃₄		10 27.7 382°92'	0°1'/27.6	18	
9 18	2 30.77	+23 11.4	2.202	2.970	14.6	20.1	9 18	2 33.23	+14 55.8	1.908	2.709	15.3	20.5
9 28	2 27.87	+22 54.0	2.095	2.952	12.0	19.9	9 28	2 29.79	+14 34.6	1.831	2.715	12.1	20.3
10 8	2 22.85	+22 20.2	2.008	2.934	8.9	19.7	10 8	2 24.10	+14 1.9	1.775	2.721	8.4	20.1
10 18	2 16.15	+21 30.1	1.945	2.916	5.4	19.4	10 18	2 16.73	+13 19.9	1.743	2.727	4.2	19.9
10 28	2 8.50	+20 26.1	1.910	2.899	2.5	19.2	10 28	2 8.51	+12 32.8	1.740	2.733	0.2	19.5
11 7	2 0.84	+19 12.8	1.904	2.881	4.1	19.3	11 7	2 0.48	+11 45.9	1.764	2.740	4.5	19.9
11 17	1 54.07	+17 56.7	1.926	2.864	7.7	19.5	11 17	1 53.56	+11 4.7	1.816	2.747	8.6	20.2
11 27	1 48.98	+16 44.8	1.975	2.847	11.2	19.6	11 27	1 48.51	+10 34.0	1.894	2.754	12.1	20.4
220499	2004 DD ₁₀		10 27.7 257°88'	4°6'/30.6	18		481042	2005 EK ₁₉₀		10 27.7 237°30'	1°1'/26.8	18	
9 18	2 40.15	+24 12.0	1.725	2.490	18.1	20.6	9 18	2 34.71	+12 51.8	2.042	2.841	14.5	22.3
9 28	2 36.17	+24 46.9	1.624	2.475	15.2	20.4	9 28	2 30.92	+12 17.0	1.948	2.832	11.5	22.1
10 8	2 29.16	+25 6.0	1.542	2.461	11.6	20.1	10 8	2 24.92	+11 31.4	1.876	2.823	7.9	21.9
10 18	2 19.56	+25 6.2	1.483	2.446	7.7	19.8	10 18	2 17.18	+10 37.7	1.830	2.814	3.9	21.6
10 28	2 8.40	+24 46.5	1.449	2.430	4.7	19.6	10 28	2 8.50	+ 9 40.5	1.811	2.804	1.2	21.4
11 7	1 57.05	+24 9.8	1.442	2.414	5.9	19.7	11 7	1 59.87	+ 8 45.5	1.822	2.794	5.0	21.7
11 17	1 46.94	+23 22.2	1.463	2.398	9.8	19.9	11 17	1 52.23	+ 7 58.4	1.861	2.783	9.0	21.9
11 27	1 39.31	+22 32.3	1.508	2.382	13.9	20.1	11 27	1 46.39	+ 7 23.9	1.925	2.772	12.6	22.1
223329	2003 QP ₅₉		10 27.7 74°33'	4°8'/31.9	18		383337	2006 KH ₁₂₀		10 27.7 129°06'	18°0'/21.6	17	
9 18	2 40.22	+27 34.6	2.295	3.021	15.2	20.0	9 18	2 53.97	-24 24.7	1.185	1.975	23.4	20.4
9 28	2 35.04	+28 19.0	2.222	3.042	12.7	19.9	9 28	2 47.39	-25 41.2	1.143	1.980	21.1	20.2
10 8	2 27.60	+28 48.5	2.169	3.064	9.9	19.8	10 8	2 36.76	-26 30.6	1.117	1.984	19.2	20.1
10 18	2 18.44	+29 1.2	2.140	3.085	7.0	19.6	10 18	2 23.14	-26 38.4	1.108	1.988	18.1	20.1
10 28	2 8.44	+28 56.5	2.139	3.107	5.0	19.5	10 28	2 8.34	-25 54.3	1.120	1.993	18.3	20.1
11 7	1 58.64	+28 36.7	2.167	3.128	5.3	19.6	11 7	1 54.41	-24 17.6	1.152	1.996	19.7	20.2
11 17	1 49.98	+28 6.2	2.223	3.149	7.5	19.8	11 17	1 43.06	-21 55.6	1.203	2.000	21.7	20.4
11 27	1 43.25	+27 30.8	2.306	3.170	10.1	20.0	11 27	1 35.32	-19 0.6	1.272	2.003	23.9	20.6
269467	2009 SM ₃₆₁		10 27.7 345°61'	4°3'/31.2	17		481344	2006 CM ₁₃		10 27.7 114°42'	5°9'/1.8	18	
9 18	2 32.40	+25 27.4	1.895	2.662	16.6	19.9	9 18	2 41.00	+30 43.6	2.005	2.725	17.2	21.5
9 28	2 29.55	+25 49.9	1.804	2.655	13.9	19.7	9 28	2 36.14	+31 17.1	1.926	2.740	14.6	21.3
10 8	2 24.22	+25 55.7	1.732	2.649	10.6	19.5	10 8	2 28.62	+31 31.3	1.867	2.754	11.6	21.2
10 18	2 16.90	+25 43.1	1.683	2.643	7.2	19.3	10 18	2 19.06	+31 23.5	1.830	2.768	8.5	21.0
10 28	2 8.48	+25 12.5	1.659	2.639	4.5	19.1	10 28	2 8.46	+30 53.1	1.819	2.782	6.3	20.9
11 7	2 0.08	+24 27.6	1.662	2.634	5.3	19.1	11 7	1 58.09	+30 3.5	1.836	2.795	6.3	20.9
11 17	1 52.79	+23 34.3	1.692	2.631	8.5	19.3	11 17	1 49.07	+29 0.8	1.881	2.808	8.6	21.1
11 27	1 47.55	+22 40.0	1.747	2.628	11.9	19.5	11 27	1 42.32	+27 53.5	1.951	2.820	11.4	21.3
430925	2005 TC ₉₉		10 27.7 36°13'	5°3'/31.1	18		360094	2013 BO ₆₂		10 27.7 308°60'	3°5'/25.0	18	
9 18	2 37.42	+25 8.1	1.350	2.137	21.2	20.3	9 18	2 33.29	+ 6 36.9	1.776	2.600	15.4	20.9
9 28	2 34.37	+25 45.0	1.282	2.146	17.6	20.1	9 28	2 30.07	+ 5 52.3	1.693	2.591	12.2	20.6
10 8	2 27.96	+26 0.7	1.231	2.155	13.4	19.9	10 8	2 24.46	+ 5 0.6	1.631	2.583	8.4	20.4
10 18	2 18.88	+25 52.2	1.200	2.165	8.9	19.7	10 18	2 16.99	+ 4 6.7	1.594	2.575	4.8	20.2
10 28	2 8.43	+25 20.0	1.194	2.175	5.6	19.5	10 28	2 8.53	+ 3 16.8	1.583	2.568	3.8	20.1
11 7	1 58.24	+24 29.3	1.212	2.186	6.5	19.6	11 7	2 0.15	+ 2 37.1	1.600	2.560	6.9	20.3
11 17	1 49.82	+23 28.9	1.255	2.197	10.4	19.9	11 17	1 52.87	+ 2 12.7	1.643	2.553	10.8	20.5
11 27	1 44.30	+22 29.4	1.322	2.209	14.5	20.1	11 27	1 47.55	+ 2 6.5	1.710	2.546	14.4	20.7
321631	2009 WU ₁₆₇		10 27.7 10°70'	0°6'/26.8	18		129351	2652 P-L		10 27.7 358°80'	0°6'/27.3	18	
9 18	2 25.83	+11 34.5	4.123	4.909	8.0	21.2	9 18	2 31.21	+13 41.7	1.839	2.650	15.4	20.0
9 28	2 22.71	+11 15.3	4.032	4.910	6.2	21.1	9 28	2 28.36	+13 21.0	1.758	2.648	12.2	19.8
10 8	2 18.61	+10 51.9	3.966	4.910	4.2	20.9	10 8	2 23.23	+12 49.3	1.698	2.647	8.4	19.5
10 18	2 13.78	+10 25.6	3.928	4.911	2.1	20.8	10 18	2 16.34	+12 9.1	1.662	2.646	4.2	19.3
10 28	2 8.59	+ 9 58.4	3.920	4.912	0.6	20.6	10 28	2 8.55	+11 24.7	1.653	2.646	0.6	19.0
11 7	2 3.45	+ 9 32.5	3.942	4.913	2.6	20.8	11 7	2 0.87	+10 41.6	1.672	2.647	4.8	19.3
11 17	1 58.75	+ 9 9.8	3.995	4.914	4.7	21.0	11 17	1 54.28	+10 5.2	1.717	2.648	9.0	19.6
11 27	1 54.84	+ 8 52.4	4.076	4.915	6.6	21.1	11 27	1 49.57	+ 9 40.1	1.787	2.650	12.7	19.8
143317	2003 AS ₅₁		10 27.7 279°87'	0°4'/27.4	18		279642	2011 ES ₇₃		10 27.7 133°14'	2°8'/25.4	16	
9 18	2 35.10	+13 8.9	2.001	2									

EPHEMERIDES

10 27.7

10 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
221660	2007 <i>CC</i> ₁₈	10 27.7 109°32'			1.3°/26.4 18			474284	2001 <i>UY</i> ₂₂₅	10 27.7 23°53'			3.3°/26.0 18	
9 18	2 34.23	+10 38.3	2.411	3.206	12.7	20.6	9 18	2 36.55	+ 7 1.8	1.243	2.084	19.7	21.0	
9 28	2 29.94	+10 10.5	2.337	3.220	9.9	20.4	9 28	2 33.46	+ 6 46.2	1.183	2.091	15.5	20.7	
10 8	2 23.88	+ 9 35.9	2.287	3.233	6.8	20.3	10 8	2 27.19	+ 6 24.1	1.142	2.098	10.7	20.5	
10 18	2 16.51	+ 8 57.4	2.262	3.246	3.4	20.1	10 18	2 18.46	+ 6 0.3	1.122	2.107	5.7	20.2	
10 28	2 8.55	+ 8 18.6	2.268	3.259	1.5	19.9	10 28	2 8.55	+ 5 40.8	1.127	2.116	3.5	20.1	
11 7	2 0.78	+ 7 43.5	2.302	3.271	4.4	20.2	11 7	1 58.98	+ 5 31.7	1.156	2.126	7.5	20.4	
11 17	1 53.91	+ 7 15.9	2.366	3.283	7.6	20.4	11 17	1 51.12	+ 5 37.1	1.210	2.137	12.3	20.7	
11 27	1 48.56	+ 6 58.4	2.456	3.295	10.5	20.6	11 27	1 45.99	+ 5 59.2	1.285	2.148	16.6	21.0	
44305	1998 <i>QK</i> ₁₀₂	10 27.7 25°77'			4.0°/24.9 18			124086	2001 <i>HZ</i> ₁₁	10 27.7 66°63'			0.4°/27.4 18	
9 18	2 33.52	+ 6 4.0	1.534	2.367	17.0	18.5	9 18	2 33.91	+14 26.6	2.250	3.041	13.6	19.8	
9 28	2 30.44	+ 5 16.7	1.469	2.373	13.3	18.3	9 28	2 29.76	+13 57.0	2.189	3.067	10.7	19.6	
10 8	2 24.76	+ 4 22.9	1.425	2.379	9.2	18.1	10 8	2 23.76	+13 18.0	2.150	3.093	7.3	19.4	
10 18	2 17.12	+ 3 28.4	1.404	2.385	5.3	17.9	10 18	2 16.45	+12 32.1	2.136	3.120	3.6	19.3	
10 28	2 8.54	+ 2 40.3	1.409	2.393	4.3	17.8	10 28	2 8.61	+11 43.4	2.152	3.146	0.4	19.0	
11 7	2 0.22	+ 2 5.3	1.440	2.400	7.6	18.0	11 7	2 1.06	+10 56.4	2.198	3.172	4.0	19.4	
11 17	1 53.25	+ 1 47.8	1.496	2.408	11.6	18.3	11 17	1 54.52	+10 15.4	2.272	3.197	7.4	19.6	
11 27	1 48.48	+ 1 50.2	1.575	2.417	15.2	18.5	11 27	1 49.60	+ 9 44.3	2.372	3.223	10.4	19.9	
353081	2009 <i>DN</i> ₁₀₅	10 27.7 34°26'			2.5°/29.5 18			3188	Jekabsons	10 27.7 25°59'			3.9°/29.9 18	
9 18	2 36.14	+20 14.6	1.733	2.519	17.2	21.0	9 18	2 36.88	+21 13.5	1.189	2.002	22.1	16.4	
9 28	2 32.50	+20 30.2	1.655	2.524	14.0	20.8	9 28	2 34.28	+21 46.4	1.124	2.008	18.1	16.2	
10 8	2 26.23	+20 31.2	1.597	2.530	10.2	20.6	10 8	2 28.11	+21 59.8	1.076	2.015	13.3	16.0	
10 18	2 17.90	+20 17.3	1.562	2.536	6.0	20.4	10 18	2 19.06	+21 51.6	1.048	2.023	8.1	15.7	
10 28	2 8.52	+19 50.3	1.553	2.542	2.6	20.2	10 28	2 8.53	+21 23.3	1.044	2.032	4.0	15.5	
11 7	1 59.29	+19 14.5	1.572	2.549	4.7	20.3	11 7	1 58.28	+20 40.9	1.063	2.042	6.2	15.7	
11 17	1 51.36	+18 35.8	1.618	2.556	8.8	20.6	11 17	1 49.93	+19 53.2	1.107	2.052	11.1	16.0	
11 27	1 45.65	+18 1.0	1.688	2.563	12.6	20.8	11 27	1 44.67	+19 10.2	1.173	2.063	15.7	16.3	
387545	2001 <i>AP</i> ₄₆	10 27.7 201°91'			9°0/18.8 18			442869	2013 <i>BH</i> ₉	10 27.7 315°84'			2°2/26.2 18	
9 18	2 42.27	-19 22.1	2.744	3.505	12.2	21.4	9 18	2 34.62	+ 9 27.3	1.711	2.530	16.1	21.5	
9 28	2 36.06	-20 19.2	2.675	3.499	10.7	21.3	9 28	2 31.27	+ 9 2.2	1.627	2.523	12.7	21.2	
10 8	2 27.99	-21 5.7	2.629	3.493	9.5	21.2	10 8	2 25.40	+ 8 28.7	1.564	2.516	8.8	21.0	
10 18	2 18.57	-21 35.6	2.609	3.485	9.0	21.2	10 18	2 17.53	+ 7 50.2	1.525	2.509	4.5	20.7	
10 28	2 8.51	-21 44.0	2.615	3.477	9.4	21.2	10 28	2 8.59	+ 7 12.0	1.512	2.503	2.3	20.6	
11 7	1 58.62	-21 28.4	2.648	3.468	10.5	21.3	11 7	1 59.71	+ 6 39.7	1.527	2.496	6.1	20.8	
11 17	1 49.68	-20 48.9	2.705	3.458	12.0	21.4	11 17	1 52.01	+ 6 18.4	1.569	2.491	10.4	21.0	
11 27	1 42.31	-19 47.7	2.784	3.448	13.5	21.5	11 27	1 46.40	+ 6 11.9	1.634	2.485	14.2	21.2	
70175	1999 <i>PU</i> ₄	10 27.7 339°46'			5°1/24.7 18			122091	2000 <i>HV</i> ₅₀	10 27.7 104°22'			0°3/27.5 17	
9 18	2 31.91	+ 6 1.4	1.162	2.017	19.9	18.1	9 18	2 38.40	+15 0.4	1.737	2.535	16.8	20.3	
9 28	2 30.22	+ 5 10.3	1.091	2.007	15.8	17.9	9 28	2 33.98	+14 34.8	1.669	2.551	13.3	20.1	
10 8	2 25.25	+ 4 9.7	1.038	1.998	11.1	17.6	10 8	2 27.04	+13 56.6	1.621	2.566	9.1	19.9	
10 18	2 17.62	+ 3 6.9	1.007	1.990	6.5	17.3	10 18	2 18.23	+13 8.4	1.598	2.581	4.6	19.7	
10 28	2 8.53	+ 2 11.5	0.998	1.983	5.4	17.2	10 28	2 8.57	+12 15.0	1.603	2.596	0.3	19.4	
11 7	1 59.56	+ 1 33.2	1.013	1.977	9.4	17.4	11 7	1 59.23	+11 22.5	1.636	2.611	4.9	19.8	
11 17	1 52.20	+ 1 18.3	1.051	1.971	14.4	17.7	11 17	1 51.25	+10 37.1	1.696	2.625	9.2	20.1	
11 27	1 47.62	+ 1 29.8	1.108	1.967	18.9	18.0	11 27	1 45.44	+10 3.8	1.782	2.638	13.0	20.3	
120328	2004 <i>NP</i> ₁₆	10 27.7 283°86'			8°2/1.8 18			431669	2008 <i>CQ</i> ₁₀₉	10 27.7 166°85'			0°5/27.3 16	
9 18	2 40.04	+31 31.5	1.717	2.449	19.3	18.8	9 18	2 38.55	+14 44.9	1.966	2.755	15.4	22.2	
9 28	2 36.51	+32 39.3	1.615	2.432	16.8	18.6	9 28	2 33.92	+14 10.0	1.883	2.760	12.2	22.0	
10 8	2 29.69	+33 29.1	1.530	2.416	13.8	18.3	10 8	2 26.95	+13 23.0	1.822	2.765	8.4	21.8	
10 18	2 20.00	+33 54.9	1.467	2.399	10.8	18.1	10 18	2 18.21	+12 26.3	1.786	2.769	4.2	21.5	
10 28	2 8.46	+33 52.4	1.427	2.382	8.5	17.9	10 28	2 8.58	+11 24.6	1.779	2.772	0.6	21.3	
11 7	1 56.59	+33 21.7	1.412	2.365	8.6	17.9	11 7	1 59.13	+10 23.9	1.801	2.774	4.8	21.6	
11 17	1 46.02	+32 28.2	1.423	2.348	11.0	18.0	11 17	1 50.85	+ 9 30.4	1.852	2.776	8.9	21.9	
11 27	1 38.16	+31 21.8	1.458	2.331	14.3	18.2	11 27	1 44.54	+ 8 49.0	1.929	2.777	12.5	22.1	
275280	2010 <i>AF</i> ₁₁₇	10 27.7 24°66'			7°1/21.7 18			79642	1998 <i>SU</i> ₈	10 27.7 88°30'			0°2/27.9 18	
9 18	2 33.16	- 6 3.8	2.053	2.873	13.7	20.3	9 18	2 41.30	+15 40.1	1.600	2.396	18.0	20.1	
9 28	2 29.43	- 7 3.7	1.990	2.877	11.2	20.2	9 28	2 36.36	+15 23.8	1.542	2.421	14.3	19.9	
10 8	2 23.69	- 7 59.6	1.949	2.880	8.8	20.0	10 8	2 28.69	+14 54.3	1.503	2.446	9.9	19.7	
10 18	2 16.48	- 8 45.3	1.934	2.884	7.3	20.0	10 18	2 19.04	+14 13.7	1.488	2.470	5.0	19.4	
10 28	2 8.57	- 9 14.8	1.944	2.888	7.5	20.0	10 28	2 8.57	+13 26.6	1.500	2.494	0.2	19.1	
11 7	2 0.87	- 9 24.1	1.981	2.892	9.3	20.1	11 7	1 58.55	+12 39.4	1.541	2.517	5.0	19.6	
11 17	1 54.19	- 9 11.5	2.044	2.897	11.8	20.3	11 17	1 50.12	+11 58.2	1.609	2.540	9.5	19.9	
11 27	1 49.21	- 8 37.9	2.128	2.902	14.1	20.5	11 27	1 44.09	+11 28.3	1.702	2.562	13.3	20.2	
320469	2007 <i>VK</i> ₂₈₄	10 27.7 313°72'			2°2/26.5 17			407002	2009 <i>RS</i> ₅₈	10 27.7 72°63'			0°8/28.3 18	
9 18	2 37.23	+10 3.8	1.311	2.143	19.4	21.2	9 18	2 42.73	+14 38.8	2.247	3.018	14.2	20.5	
9 28	2 34.15	+ 9 44.6	1.234	2.137	15.4	21.0	9 28	2 36.68	+15 4.7	2.183	3.047	11.3	20.3	
10 8	2 27.84	+ 9 14.8	1.176	2.131	10.7	20.7	10 8	2 28.53	+15 22.9	2.142	3.077	7.9	20.2	
10 18	2 18.89	+ 8 38.2	1.140	2.125	5.4	20.4	10 18	2 18.88	+15 33.5	2.127	3.106	4.1	20.0	
10 28	2 8.50	+ 8 0.7	1.128	2.120	2.4	20.2	10 28	2 8.58	+15 37.9	2.142	3.135	0.8	19.8	
11 7	1 58.20	+ 7 29.6	1.142	2.115	7.1	20.4	11 7	1 58.58	+15 38.5	2.188	3.164	3.8	20.1	
11 17	1 49.48	+ 7 11.1	1.181	2.110	12.3	20.7	11 17	1 49.76	+15 38.2	2.264	3.192	7.3	20.3	
11 27	1 43.50	+ 7 10.0	1.241	2.105	16.9	21.0	11 27	1 42.80	+15 40.5	2.367	3.221	10.3	20.6	
282554	2004 <i>TH</i> ₃₅₆	10 27.7 347°04'			15°5/16.5 18			398542	2011 <i>UR</i> ₃₂₃	10 27.7 26°21'			0°8/28.3 18	
9 18	2 31.28	-17 4												

EPHEMERIDES

10 27.7

10 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
483974	2006 <i>BN</i> ₂₄₄		10 27.7 36°80	5°2/23.0	18		376411	2012 <i>FP</i> ₈₁		10 27.7 139°41	1°9/26.5	17	
9 18	2 31.94	+ 0 10.7	2.104	2.925	13.4	21.1	9 18	2 41.77	+ 9 37.2	1.674	2.479	17.0	21.5
9 28	2 28.45	- 0 49.1	2.035	2.930	10.6	20.9	9 28	2 36.79	+ 9 19.3	1.602	2.489	13.4	21.3
10 8	2 23.03	- 1 49.8	1.990	2.934	7.8	20.8	10 8	2 29.10	+ 8 53.4	1.550	2.498	9.2	21.1
10 18	2 16.18	- 2 46.1	1.970	2.939	5.6	20.7	10 18	2 19.35	+ 8 22.9	1.523	2.506	4.7	20.8
10 28	2 8.66	- 3 31.8	1.978	2.943	5.5	20.7	10 28	2 8.60	+ 7 52.4	1.523	2.514	2.1	20.7
11 7	2 1.30	- 4 2.4	2.013	2.948	7.7	20.8	11 7	1 58.11	+ 7 27.2	1.552	2.521	5.9	20.9
11 17	1 54.92	- 4 14.7	2.074	2.954	10.5	21.0	11 17	1 49.03	+ 7 11.9	1.608	2.528	10.3	21.2
11 27	1 50.15	- 4 8.1	2.159	2.959	13.1	21.2	11 27	1 42.27	+ 7 9.9	1.688	2.534	14.1	21.5
227031	2005 <i>AW</i> ₂₂		10 27.7 312°25	5°5/ 1.1	16		386155	2007 <i>TF</i> ₃₂₀		10 27.7 98°19	2°1/29.3	18	
9 18	2 34.51	+28 38.2	2.114	2.853	15.9	20.4	9 18	2 42.94	+19 16.9	2.053	2.816	15.6	21.4
9 28	2 31.22	+29 16.1	2.008	2.835	13.6	20.2	9 28	2 37.20	+19 38.2	1.984	2.840	12.6	21.2
10 8	2 25.46	+29 38.2	1.920	2.818	10.8	19.9	10 8	2 29.09	+19 47.7	1.937	2.864	9.1	21.0
10 18	2 17.65	+29 41.7	1.855	2.801	7.9	19.7	10 18	2 19.25	+19 45.0	1.914	2.887	5.2	20.8
10 28	2 8.62	+29 25.3	1.817	2.784	5.8	19.6	10 28	2 8.61	+19 31.4	1.921	2.910	2.2	20.7
11 7	1 59.43	+28 50.9	1.805	2.768	6.0	19.6	11 7	1 58.26	+19 10.2	1.957	2.933	4.2	20.9
11 17	1 51.22	+28 3.2	1.820	2.751	8.5	19.7	11 17	1 49.21	+18 46.1	2.023	2.954	7.8	21.1
11 27	1 44.96	+27 9.3	1.861	2.736	11.6	19.8	11 27	1 42.21	+18 24.2	2.115	2.976	11.0	21.4
229910	6798 <i>P-L</i>		10 27.7 15°97	2°8/29.0	18		157953	2000 <i>CF</i> ₁₃₆		10 27.7 49°64	5°4/22.8	18	
9 18	2 36.73	+16 45.4	1.088	1.921	22.4	19.4	9 18	2 31.59	- 0 0.1	2.070	2.903	13.5	19.8
9 28	2 34.35	+17 37.2	1.028	1.927	18.2	19.1	9 28	2 28.15	- 1 7.5	2.019	2.914	10.7	19.6
10 8	2 28.27	+18 15.0	0.986	1.934	13.1	18.9	10 8	2 22.79	- 2 15.6	1.981	2.925	7.8	19.5
10 18	2 19.20	+18 36.8	0.963	1.943	7.4	18.6	10 18	2 16.06	- 3 18.6	1.969	2.937	5.7	19.4
10 28	2 8.58	+18 43.5	0.962	1.953	2.9	18.4	10 28	2 8.69	- 4 10.2	1.985	2.948	5.7	19.4
11 7	1 58.26	+18 39.1	0.986	1.965	6.2	18.6	11 7	2 1.56	- 4 45.6	2.028	2.960	7.9	19.5
11 17	1 49.93	+18 30.2	1.032	1.978	11.6	19.0	11 17	1 55.41	- 5 2.1	2.097	2.972	10.6	19.7
11 27	1 44.81	+18 24.4	1.100	1.993	16.3	19.3	11 27	1 50.88	- 4 58.8	2.189	2.985	13.1	19.9
411963	2012 <i>HC</i> ₄₄		10 27.7 228°59	0°0/27.8	18		188813	2005 <i>XV</i> ₁		10 27.7 198°93	0°2/27.6	18	
9 18	2 31.22	+18 1.7	2.611	3.387	12.3	20.9	9 18	2 35.03	+13 49.5	2.412	3.197	13.0	21.4
9 28	2 27.65	+17 4.9	2.511	3.380	9.8	20.7	9 28	2 30.79	+13 37.4	2.320	3.195	10.3	21.2
10 8	2 22.39	+15 54.9	2.435	3.374	6.8	20.5	10 8	2 24.64	+13 16.9	2.251	3.193	7.1	21.0
10 18	2 15.86	+14 34.2	2.386	3.367	3.5	20.3	10 18	2 17.04	+12 49.7	2.208	3.191	3.6	20.8
10 28	2 8.68	+13 6.9	2.367	3.360	0.1	19.9	10 28	2 8.67	+12 18.5	2.194	3.188	0.3	20.5
11 7	2 1.58	+11 38.7	2.379	3.353	3.6	20.3	11 7	2 0.37	+11 47.1	2.211	3.185	3.9	20.8
11 17	1 55.26	+10 15.3	2.421	3.346	7.0	20.5	11 17	1 52.92	+11 19.3	2.256	3.182	7.4	21.0
11 27	1 50.33	+ 9 2.1	2.490	3.338	10.0	20.6	11 27	1 47.02	+10 58.9	2.328	3.178	10.6	21.2
461505	2003 <i>KB</i> ₅		10 27.7 92°97	1°1/27.1	17		97226	1999 <i>XC</i> ₅₄		10 27.7 171°71	6°9/21.8	18	
9 18	2 42.43	+11 51.1	1.382	2.196	19.5	21.6	9 18	2 37.82	- 9 58.5	2.507	3.302	12.3	19.4
9 28	2 37.77	+11 40.1	1.320	2.212	15.4	21.4	9 28	2 32.69	-10 36.5	2.437	3.303	10.2	19.3
10 8	2 29.98	+11 18.2	1.278	2.228	10.6	21.1	10 8	2 25.76	-11 8.1	2.391	3.305	8.2	19.2
10 18	2 19.82	+10 48.5	1.259	2.243	5.2	20.9	10 18	2 17.52	-11 28.5	2.370	3.306	7.0	19.1
10 28	2 8.57	+10 15.8	1.266	2.259	1.3	20.7	10 28	2 8.66	-11 33.0	2.377	3.306	7.2	19.1
11 7	1 57.76	+ 9 46.4	1.300	2.274	6.1	21.0	11 7	1 59.98	-11 19.3	2.412	3.307	8.7	19.2
11 17	1 48.71	+ 9 26.1	1.360	2.289	11.0	21.4	11 17	1 52.22	-10 46.6	2.474	3.308	10.7	19.3
11 27	1 42.38	+ 9 19.2	1.443	2.303	15.2	21.6	11 27	1 45.99	- 9 56.2	2.559	3.308	12.7	19.5
291740	2006 <i>JZ</i> ₅₂		10 27.7 31°50	0°2/27.9	18		449842	2014 <i>QS</i> ₄₀₅		10 27.7 294°41	4°4/22.9	18	
9 18	2 32.05	+17 23.2	1.324	2.147	19.7	20.1	9 18	2 30.08	+ 4 4.4	2.242	3.061	12.8	20.7
9 28	2 29.72	+16 47.4	1.267	2.163	15.6	19.8	9 28	2 26.96	+ 2 37.9	2.162	3.058	10.0	20.5
10 8	2 24.47	+15 53.2	1.229	2.179	10.8	19.6	10 8	2 22.01	+ 1 5.6	2.107	3.055	7.1	20.4
10 18	2 17.04	+14 44.1	1.213	2.197	5.5	19.4	10 18	2 15.70	- 0 26.5	2.078	3.052	4.8	20.2
10 28	2 8.66	+13 27.2	1.221	2.215	0.2	19.0	10 28	2 8.70	- 1 51.6	2.078	3.048	4.8	20.2
11 7	2 0.69	+12 11.6	1.256	2.234	5.5	19.5	11 7	2 1.82	- 3 3.2	2.106	3.045	7.2	20.4
11 17	1 54.32	+11 6.1	1.316	2.254	10.4	19.8	11 17	1 55.78	- 3 56.8	2.162	3.042	10.1	20.5
11 27	1 50.41	+10 17.4	1.399	2.275	14.6	20.1	11 27	1 51.24	- 4 29.7	2.242	3.039	12.8	20.7
179320	2001 <i>WH</i> ₃₀		10 27.7 0°03	0°6/27.2	18		260532	2005 <i>EO</i> ₁₄₀		10 27.7 166°32	3°3/30.0	18	
9 18	2 32.80	+13 50.4	1.814	2.623	15.7	20.4	9 18	2 41.37	+22 27.0	1.721	2.490	18.0	21.4
9 28	2 29.66	+13 25.1	1.733	2.622	12.5	20.2	9 28	2 36.80	+22 41.3	1.637	2.494	14.8	21.2
10 8	2 24.18	+12 48.2	1.673	2.622	8.6	20.0	10 8	2 29.33	+22 39.0	1.572	2.497	10.9	21.0
10 18	2 16.89	+12 2.3	1.637	2.621	4.3	19.7	10 18	2 19.58	+22 18.7	1.531	2.500	6.7	20.7
10 28	2 8.66	+11 12.1	1.628	2.622	0.7	19.5	10 28	2 8.60	+21 41.8	1.516	2.502	3.4	20.5
11 7	2 0.57	+10 23.4	1.647	2.622	4.9	19.8	11 7	1 57.76	+20 52.8	1.529	2.504	5.1	20.6
11 17	1 53.59	+ 9 42.0	1.694	2.623	9.2	20.1	11 17	1 48.32	+19 58.7	1.569	2.505	9.2	20.9
11 27	1 48.57	+ 9 12.7	1.764	2.624	12.9	20.3	11 27	1 41.32	+19 7.6	1.635	2.506	13.2	21.1
212747	2007 <i>TY</i>		10 27.7 324°97	2°1/29.2	18		52645	1997 <i>XR</i> ₁₃		10 27.7 308°27	1°4/25.6	18	
9 18	2 35.15	+19 19.7	1.705	2.497	17.2	20.6	9 18	2 26.88	+ 6 36.6	4.275	5.068	7.6	19.6
9 28	2 31.92	+19 30.0	1.616	2.490	14.0	20.3	9 28	2 23.52	+ 6 21.1	4.184	5.066	5.9	19.5
10 8	2 26.01	+19 25.9	1.547	2.484	10.2	20.1	10 8	2 19.18	+ 6 3.6	4.117	5.063	4.1	19.4
10 18	2 17.93	+19 7.3	1.501	2.477	5.8	19.8	10 18	2 14.15	+ 5 45.5	4.079	5.060	2.2	19.2
10 28	2 8.63	+18 35.9	1.481	2.471	2.2	19.6	10 28	2 8.76	+ 5 28.7	4.071	5.058	1.5	19.2
11 7	1 59.36	+17 56.5	1.488	2.466	4.8	19.7	11 7	2 3.40	+ 5 15.2	4.094	5.055	3.0	19.3
11 17	1 51.30	+17 15.2	1.522	2.460	9.2	20.0	11 17	1 58.46	+ 5 6.4	4.146	5.052	5.0	19.4
11 27	1 45.47	+16 38.9	1.580	2.455	13.3	20.2	11 27	1 54.28	+ 5 3.9	4.227	5.050	6.8	19.6
77474	2001 <i>HG</i> ₂₈		10 27.7 166°07	0°5/28.1	18		395570	2011 <i>UE</i> ₂₄₇		10 27.7 37°95	7°1/24.6		

EPHEMERIDES

10 27.7

10 27.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
38349	1999 <i>RJ</i> ₁₄₉		10 27.7 358°22	5°4/22.9	18		15122	2000 <i>EE</i> ₁₇		10 27.8 289°21	0°0/27.7	17	
9 18	2 30.29	+ 2 28.3	1.802	2.635	14.8	18.2	9 18	2 32.42	+14 57.9	2.307	3.097	13.3	19.4
9 28	2 27.58	+ 1 13.2	1.731	2.633	11.7	18.0	9 28	2 28.98	+14 40.6	2.203	3.081	10.6	19.2
10 8	2 22.67	- 0 6.3	1.682	2.632	8.4	17.8	10 8	2 23.57	+14 13.2	2.121	3.064	7.4	19.0
10 18	2 16.10	- 1 23.4	1.658	2.631	5.8	17.7	10 18	2 16.58	+13 37.3	2.065	3.047	3.8	18.7
10 28	2 8.71	- 2 30.3	1.661	2.631	5.8	17.7	10 28	2 8.72	+12 55.9	2.037	3.031	0.1	18.4
11 7	2 1.47	- 3 20.2	1.690	2.632	8.4	17.8	11 7	2 0.82	+12 13.2	2.039	3.014	4.0	18.7
11 17	1 55.30	- 3 48.9	1.745	2.632	11.7	18.0	11 17	1 53.73	+11 34.0	2.069	2.997	7.8	18.9
11 27	1 50.95	- 3 54.7	1.821	2.634	14.7	18.2	11 27	1 48.20	+11 2.7	2.125	2.981	11.2	19.1
482214	2010 <i>WG</i> ₃₁		10 27.7 222°64	3°1/24.5	18		487815	2015 <i>TU</i> ₂₂		10 27.8 23°52	1°7/26.5	18	
9 18	2 34.63	+ 2 32.5	3.002	3.797	10.4	22.1	9 18	2 35.30	+ 9 25.4	1.887	2.698	15.1	20.8
9 28	2 30.03	+ 2 2.7	2.905	3.786	8.3	22.0	9 28	2 31.47	+ 9 12.1	1.810	2.700	11.9	20.6
10 8	2 23.90	+ 1 31.3	2.832	3.774	5.8	21.8	10 8	2 25.34	+ 8 52.2	1.754	2.703	8.2	20.4
10 18	2 16.60	+ 1 1.2	2.788	3.762	3.7	21.7	10 18	2 17.46	+ 8 28.4	1.722	2.706	4.1	20.1
10 28	2 8.70	+ 0 35.8	2.773	3.749	3.3	21.6	10 28	2 8.70	+ 8 4.7	1.719	2.710	1.8	20.0
11 7	2 0.82	+ 0 18.3	2.789	3.736	5.2	21.7	11 7	2 0.09	+ 7 45.6	1.744	2.714	5.3	20.2
11 17	1 53.58	+ 0 10.9	2.834	3.723	7.7	21.9	11 17	1 52.59	+ 7 35.0	1.795	2.718	9.2	20.5
11 27	1 47.54	+ 0 15.1	2.906	3.708	10.0	22.0	11 27	1 47.01	+ 7 35.7	1.872	2.722	12.7	20.7
102309	1999 <i>TM</i> ₉₆		10 27.7 337°93	1°4/27.0	18		174687	2003 <i>UV</i> ₉		10 27.8 333°46	0°2/27.7	18	
9 18	2 37.16	+ 9 23.0	1.459	2.283	18.1	19.3	9 18	2 35.00	+15 23.5	1.326	2.149	19.7	20.1
9 28	2 33.86	+ 9 34.6	1.376	2.274	14.4	19.0	9 28	2 32.42	+15 3.9	1.248	2.144	15.7	19.8
10 8	2 27.56	+ 9 40.0	1.313	2.265	10.0	18.7	10 8	2 26.68	+14 28.0	1.189	2.140	11.0	19.5
10 18	2 18.79	+ 9 41.3	1.272	2.257	5.1	18.4	10 18	2 18.38	+13 37.8	1.152	2.136	5.6	19.2
10 28	2 8.64	+ 9 41.8	1.258	2.250	1.5	18.2	10 28	2 8.68	+12 38.9	1.139	2.133	0.3	18.8
11 7	1 58.49	+ 9 45.7	1.269	2.244	6.1	18.4	11 7	1 59.10	+11 39.4	1.152	2.130	6.0	19.2
11 17	1 49.73	+ 9 56.8	1.306	2.238	11.1	18.7	11 17	1 51.08	+10 48.1	1.190	2.127	11.4	19.5
11 27	1 43.47	+10 18.5	1.366	2.233	15.5	19.0	11 27	1 45.74	+10 12.1	1.250	2.124	16.1	19.8
398098	2009 <i>SX</i> ₅		10 27.7 34°45	0°8/27.1	17		784	Pickeringia		10 27.8 122°68	1°7/29.5	18	
9 18	2 32.69	+13 8.6	1.842	2.651	15.5	20.9	9 18	2 37.06	+19 57.0	2.808	3.559	12.1	15.0
9 28	2 29.39	+12 44.6	1.773	2.663	12.2	20.7	9 28	2 32.04	+20 5.7	2.726	3.575	9.8	14.9
10 8	2 23.86	+12 10.4	1.725	2.674	8.3	20.5	10 8	2 25.31	+20 4.8	2.667	3.591	7.0	14.7
10 18	2 16.67	+11 28.8	1.702	2.687	4.1	20.3	10 18	2 17.32	+19 54.3	2.634	3.606	4.1	14.6
10 28	2 8.70	+10 44.4	1.707	2.700	0.9	20.1	10 28	2 8.72	+19 35.7	2.632	3.621	1.8	14.4
11 7	2 0.96	+10 2.5	1.739	2.713	4.8	20.4	11 7	2 0.27	+19 11.6	2.660	3.635	3.2	14.5
11 17	1 54.37	+ 9 28.3	1.798	2.726	8.8	20.6	11 17	1 52.65	+18 45.2	2.718	3.649	6.1	14.8
11 27	1 49.66	+ 9 5.7	1.882	2.740	12.3	20.9	11 27	1 46.46	+18 20.4	2.804	3.662	8.7	15.0
118667	2000 <i>KA</i> ₄₀		10 27.7 11°96	1°6/26.9	18		207183	2005 <i>EU</i> ₁₂		10 27.8 116°78	2°1/29.5	18	
9 18	2 34.55	+ 9 40.4	1.078	1.929	21.4	18.3	9 18	2 40.13	+20 16.2	2.265	3.022	14.5	20.6
9 28	2 32.44	+ 9 49.6	1.020	1.933	16.9	18.1	9 28	2 34.86	+20 27.5	2.188	3.041	11.7	20.4
10 8	2 26.84	+ 9 50.0	0.979	1.938	11.7	17.8	10 8	2 27.45	+20 27.0	2.133	3.058	8.5	20.3
10 18	2 18.44	+ 9 44.6	0.958	1.944	5.9	17.5	10 18	2 18.46	+20 14.6	2.103	3.075	5.0	20.1
10 28	2 8.65	+ 9 38.4	0.960	1.953	1.8	17.3	10 28	2 8.70	+19 51.7	2.103	3.092	2.2	19.9
11 7	1 59.19	+ 9 36.9	0.986	1.962	6.9	17.6	11 7	1 59.16	+19 21.7	2.132	3.108	3.9	20.1
11 17	1 51.61	+ 9 45.0	1.034	1.973	12.4	18.0	11 17	1 50.72	+18 49.2	2.191	3.123	7.2	20.3
11 27	1 47.03	+10 6.3	1.104	1.986	17.2	18.3	11 27	1 44.10	+18 19.0	2.277	3.138	10.3	20.5
172503	2003 <i>SK</i> ₁₈₄		10 27.7 248°50	1°5/28.7	18		76871	2000 <i>YZ</i> ₂₈		10 27.8 28°62	3°0/26.5	18	
9 18	2 39.61	+17 22.9	1.521	2.320	18.7	20.2	9 18	2 38.76	+ 6 59.1	1.018	1.870	22.3	18.4
9 28	2 35.81	+17 33.6	1.435	2.314	15.1	19.9	9 28	2 35.76	+ 7 2.1	0.969	1.882	17.6	18.1
10 8	2 28.92	+17 30.4	1.367	2.308	10.8	19.7	10 8	2 29.06	+ 6 59.2	0.937	1.896	12.1	17.9
10 18	2 19.49	+17 13.0	1.322	2.302	6.0	19.4	10 18	2 19.51	+ 6 54.6	0.925	1.911	6.3	17.6
10 28	2 8.62	+16 43.7	1.304	2.296	1.6	19.1	10 28	2 8.68	+ 6 53.9	0.936	1.927	3.2	17.5
11 7	1 57.77	+16 7.5	1.312	2.290	5.3	19.3	11 7	1 58.40	+ 7 2.4	0.971	1.944	7.8	17.8
11 17	1 48.34	+15 31.3	1.346	2.283	10.3	19.6	11 17	1 50.25	+ 7 23.5	1.028	1.962	13.1	18.2
11 27	1 41.50	+15 2.1	1.404	2.276	14.8	19.9	11 27	1 45.29	+ 7 59.1	1.106	1.981	17.7	18.5
389808	2011 <i>UT</i> ₃₆₉		10 27.7 97°31	1°0/26.8	18		131360	2001 <i>KN</i> ₄		10 27.8 245°24	2°1/30.3	17	
9 18	2 34.96	+14 43.0	2.066	2.859	14.6	21.1	9 18	2 32.56	+23 58.9	2.782	3.527	12.4	20.6
9 28	2 30.80	+13 44.1	1.998	2.879	11.4	20.9	9 28	2 28.77	+23 35.2	2.670	3.513	10.2	20.4
10 8	2 24.61	+12 33.4	1.954	2.899	7.8	20.7	10 8	2 23.24	+22 57.4	2.580	3.498	7.5	20.2
10 18	2 16.96	+11 14.5	1.935	2.919	3.8	20.5	10 18	2 16.36	+22 5.9	2.516	3.483	4.6	20.0
10 28	2 8.70	+ 9 53.3	1.946	2.938	1.1	20.3	10 28	2 8.76	+21 2.7	2.481	3.468	2.3	19.8
11 7	2 0.74	+ 8 36.2	1.986	2.957	4.7	20.6	11 7	2 1.17	+19 51.6	2.476	3.452	3.4	19.9
11 17	1 53.89	+ 7 29.3	2.055	2.975	8.4	20.9	11 17	1 54.31	+18 37.7	2.502	3.436	6.3	20.1
11 27	1 48.80	+ 6 37.0	2.150	2.994	11.6	21.2	11 27	1 48.83	+17 26.7	2.555	3.419	9.3	20.2
192190	2007 <i>GG</i> ₃₃		10 27.7 124°08	6°5/21.6	18		480228	2015 <i>GS</i> ₄₃		10 27.8 61°23	5°1/23.9	16	
9 18	2 34.62	- 7 36.0	2.473	3.278	12.1	20.2	9 18	2 36.22	+ 5 42.1	1.476	2.307	17.6	20.9
9 28	2 30.20	- 8 28.9	2.410	3.285	9.9	20.0	9 28	2 32.33	+ 4 11.6	1.434	2.336	13.7	20.7
10 8	2 24.05	- 9 17.1	2.370	3.293	7.9	19.9	10 8	2 25.87	+ 2 35.2	1.412	2.365	9.5	20.5
10 18	2 16.66	- 9 55.6	2.357	3.299	6.6	19.9	10 18	2 17.63	+ 1 1.4	1.415	2.394	5.9	20.4
10 28	2 8.71	-10 19.5	2.371	3.306	6.9	19.9	10 28	2 8.74	- 0 20.5	1.445	2.423	5.5	20.5
11 7	2 0.94	-10 25.6	2.413	3.313	8.4	20.0	11 7	2 0.38	- 1 22.8	1.502	2.452	8.5	20.7
11 17	1 54.07	-10 12.9	2.480	3.319	10.5	20.1	11 17	1 53.57	- 2 1.2	1.584	2.480	12.1	21.0
11 27	1 48.66	- 9 41.8	2.571	3.326	12.5	20.3	11 27	1 48.99	- 2 14.8	1.688	2.509	15.3	21.3
289573	2005 <i>EF</i> ₃₀₇		10 27.8 41°41	6°9/21.9	18		324177	2006 <i>AV</i> ₂₅		10 27.8 213°05	1°9/29.9		

EPHEMERIDES

10 27.8

10 27.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
42100	2001 <i>AL</i> ₃₁		10 27.8 26 ^o 74	4.3/25.7	18		429790	2012 <i>HT</i> ₂₇		10 27.8 125 ^o 64	1.9/26.4	16	
9 18	2 37.61	+ 4 9.1	1.280	2.120	19.3	18.1	9 18	2 40.18	+10 44.4	1.737	2.540	16.5	22.6
9 28	2 34.14	+ 3 55.9	1.224	2.131	15.2	17.9	9 28	2 35.39	+10 10.6	1.668	2.555	13.0	22.4
10 8	2 27.58	+ 3 40.1	1.187	2.142	10.6	17.7	10 8	2 28.06	+ 9 27.5	1.620	2.568	8.9	22.2
10 18	2 18.69	+ 3 26.5	1.172	2.154	6.0	17.5	10 18	2 18.84	+ 8 38.8	1.598	2.581	4.5	22.0
10 28	2 8.72	+ 3 21.1	1.182	2.168	4.5	17.4	10 28	2 8.75	+ 7 49.8	1.603	2.594	2.0	21.8
11 7	2 59.15	+ 3 28.4	1.217	2.182	7.9	17.7	11 7	1 58.97	+ 7 6.7	1.637	2.606	5.8	22.1
11 17	1 51.30	+ 3 51.2	1.277	2.197	12.4	18.0	11 17	1 50.56	+ 6 34.5	1.698	2.617	9.9	22.4
11 27	1 46.09	+ 4 30.0	1.358	2.213	16.3	18.3	11 27	1 44.32	+ 6 17.1	1.784	2.628	13.6	22.6
85940	1999 <i>DS</i> ₈		10 27.8 272 ^o 25	3 ^o 2/25.2	17		439084	2011 <i>PO</i> ₂		10 27.8 71 ^o 51	0 ^o 1/27.9	18	
9 18	2 36.39	+ 5 31.6	2.161	2.967	13.6	20.7	9 18	2 36.36	+17 32.7	1.694	2.490	17.2	21.1
9 28	2 32.27	+ 5 1.3	2.055	2.943	10.8	20.5	9 28	2 32.37	+16 48.0	1.634	2.515	13.6	21.0
10 8	2 25.96	+ 4 26.2	1.972	2.919	7.6	20.2	10 8	2 25.92	+15 47.7	1.596	2.539	9.4	20.8
10 18	2 17.87	+ 3 49.7	1.914	2.894	4.4	20.0	10 18	2 17.72	+14 35.2	1.581	2.563	4.7	20.5
10 28	2 8.75	+ 3 16.6	1.885	2.869	3.4	19.9	10 28	2 8.79	+13 16.6	1.594	2.588	0.1	20.2
11 7	1 59.52	+ 2 51.5	1.885	2.844	6.2	20.0	11 7	2 0.28	+11 59.4	1.636	2.612	4.7	20.7
11 17	1 51.13	+ 2 38.6	1.913	2.818	9.8	20.2	11 17	1 53.17	+10 50.8	1.705	2.636	9.0	21.0
11 27	1 44.42	+ 2 40.5	1.966	2.792	13.2	20.4	11 27	1 48.19	+ 9 56.7	1.799	2.659	12.7	21.2
53749	2000 <i>EL</i> ₅₈		10 27.8 116 ^o 80	2 ^o 8/25.1	18		156147	2001 <i>TC</i> ₇₁		10 27.8 324 ^o 33	0 ^o 8/27.4	18	
9 18	2 34.07	+ 8 21.6	2.098	2.906	13.9	19.2	9 18	2 40.62	+10 20.8	1.503	2.317	18.2	19.4
9 28	2 30.14	+ 7 22.6	2.027	2.917	10.8	19.0	9 28	2 36.55	+10 39.2	1.420	2.311	14.5	19.2
10 8	2 24.21	+ 6 16.3	1.978	2.928	7.4	18.9	10 8	2 29.42	+10 51.2	1.357	2.306	10.1	18.9
10 18	2 16.83	+ 5 7.3	1.956	2.938	4.0	18.7	10 18	2 19.78	+10 58.1	1.316	2.301	5.1	18.6
10 28	2 8.78	+ 4 1.4	1.962	2.948	3.0	18.6	10 28	2 8.74	+11 2.5	1.303	2.296	0.9	18.3
11 7	2 0.94	+ 3 4.5	1.998	2.957	5.9	18.8	11 7	1 57.72	+11 8.1	1.316	2.291	5.8	18.7
11 17	1 54.12	+ 2 21.1	2.061	2.967	9.2	19.0	11 17	1 48.13	+11 18.7	1.356	2.287	10.8	18.9
11 27	1 48.98	+ 1 54.1	2.150	2.976	12.2	19.3	11 27	1 41.08	+11 37.9	1.419	2.283	15.2	19.2
485328	2011 <i>BE</i> ₈₃		10 27.8 195 ^o 16	3 ^o 2/31.3	17		49876	1999 <i>XG</i> ₁₃₁		10 27.8 132 ^o 91	6 ^o 3/2.2	18	
9 18	2 34.87	+25 59.2	2.904	3.631	12.3	21.9	9 18	2 41.83	+32 7.6	1.889	2.606	18.3	18.9
9 28	2 30.52	+26 12.3	2.803	3.630	10.2	21.8	9 28	2 37.08	+32 30.3	1.809	2.619	15.6	18.7
10 8	2 24.41	+26 13.4	2.724	3.627	7.8	21.6	10 8	2 29.47	+32 31.1	1.746	2.631	12.5	18.6
10 18	2 16.95	+26 1.5	2.671	3.625	5.3	21.5	10 18	2 19.65	+32 6.9	1.706	2.642	9.2	18.4
10 28	2 8.77	+25 37.2	2.646	3.622	3.4	21.3	10 28	2 8.75	+31 17.4	1.691	2.653	6.7	18.3
11 7	2 0.62	+25 2.9	2.650	3.619	3.9	21.4	11 7	1 58.08	+30 6.6	1.704	2.664	6.6	18.3
11 17	1 53.22	+24 22.1	2.685	3.615	6.1	21.5	11 17	1 48.90	+28 42.5	1.744	2.673	9.0	18.4
11 27	1 47.20	+23 39.4	2.747	3.612	8.7	21.7	11 27	1 42.16	+27 14.7	1.811	2.682	12.0	18.7
198831	2005 <i>EL</i> ₂₉₀		10 27.8 128 ^o 02	4 ^o 0/31.6	18		288030	2003 <i>UZ</i> ₂₃₈		10 27.8 77 ^o 89	1 ^o 5/29.1	18	
9 18	2 37.55	+27 14.6	2.238	2.973	15.3	20.3	9 18	2 35.86	+18 12.7	2.335	3.107	13.7	20.8
9 28	2 33.07	+27 21.2	2.154	2.984	12.7	20.1	9 28	2 31.55	+18 24.4	2.250	3.113	11.0	20.6
10 8	2 26.37	+27 11.1	2.091	2.995	9.7	19.9	10 8	2 25.24	+18 26.1	2.188	3.120	7.9	20.4
10 18	2 17.97	+26 43.3	2.051	3.006	6.6	19.7	10 18	2 17.41	+18 17.9	2.151	3.127	4.4	20.2
10 28	2 8.75	+25 58.9	2.039	3.016	4.2	19.6	10 28	2 8.80	+18 1.6	2.142	3.133	1.6	20.0
11 7	1 59.71	+25 1.8	2.056	3.026	4.7	19.7	11 7	2 0.30	+17 40.0	2.163	3.140	3.7	20.2
11 17	1 51.78	+23 57.7	2.102	3.035	7.4	19.9	11 17	1 52.73	+17 17.1	2.213	3.147	7.1	20.4
11 27	1 45.73	+22 53.6	2.174	3.044	10.4	20.1	11 27	1 46.81	+16 57.0	2.290	3.154	10.2	20.6
522047	2015 <i>XX</i> ₄₁₃		10 27.8 322 ^o 28	2 ^o 3/29.9	18		419226	2009 <i>VF</i> ₇		10 27.8 334 ^o 58	2 ^o 9/30.6	17	
9 18	2 31.33	+22 54.5	2.145	2.915	14.8	21.1	9 18	2 31.68	+24 13.5	2.124	2.888	15.1	20.8
9 28	2 28.32	+22 35.5	2.050	2.909	12.1	20.9	9 28	2 28.66	+24 6.6	2.030	2.883	12.5	20.6
10 8	2 23.19	+22 0.3	1.975	2.902	8.9	20.7	10 8	2 23.48	+23 43.3	1.956	2.877	9.3	20.4
10 18	2 16.42	+21 9.2	1.925	2.896	5.4	20.5	10 18	2 16.60	+23 3.4	1.906	2.872	5.9	20.2
10 28	2 8.79	+20 4.9	1.902	2.890	2.4	20.3	10 28	2 8.83	+22 8.8	1.882	2.868	3.1	20.0
11 7	2 1.22	+18 52.7	1.907	2.885	4.0	20.4	11 7	2 1.11	+21 4.3	1.888	2.864	4.2	20.0
11 17	1 54.62	+17 38.8	1.942	2.879	7.6	20.6	11 17	1 54.38	+19 55.9	1.921	2.860	7.6	20.2
11 27	1 49.73	+16 30.3	2.002	2.874	11.0	20.8	11 27	1 49.42	+18 50.5	1.981	2.856	11.0	20.4
45679	2000 <i>EZ</i> ₁₂₇		10 27.8 305 ^o 87	1 ^o 0/26.8	18		372299	2008 <i>VN</i> ₇₃		10 27.8 223 ^o 64	1 ^o 7/26.1	18	
9 18	2 32.48	+11 40.7	2.270	3.070	13.2	19.4	9 18	2 32.59	+ 8 36.4	2.579	3.378	11.8	21.4
9 28	2 28.95	+11 18.9	2.179	3.064	10.4	19.2	9 28	2 28.71	+ 8 14.7	2.493	3.378	9.3	21.2
10 8	2 23.48	+10 49.3	2.111	3.058	7.2	19.0	10 8	2 23.14	+ 7 48.0	2.430	3.377	6.4	21.1
10 18	2 16.53	+10 14.1	2.068	3.052	3.6	18.7	10 18	2 16.31	+ 7 18.8	2.394	3.377	3.3	20.9
10 28	2 8.80	+ 9 36.9	2.054	3.046	1.1	18.5	10 28	2 8.84	+ 6 50.4	2.387	3.376	1.8	20.8
11 7	2 1.11	+ 9 2.0	2.069	3.040	4.4	18.8	11 7	2 1.45	+ 6 26.4	2.410	3.376	4.4	20.9
11 17	1 54.28	+ 8 33.6	2.112	3.035	8.0	19.0	11 17	1 54.83	+ 6 9.7	2.461	3.376	7.5	21.1
11 27	1 49.02	+ 8 15.3	2.180	3.029	11.2	19.2	11 27	1 49.58	+ 6 2.9	2.539	3.375	10.3	21.3
400972	2010 <i>XX</i> ₁₇		10 27.8 36 ^o 28	3 ^o 6/31.3	18		146447	2001 <i>RU</i> ₈		10 27.8 127 ^o 58	2 ^o 2/29.6	16	
9 18	2 32.69	+26 19.6	2.092	2.846	15.6	20.7	9 18	2 40.03	+21 41.8	1.926	2.691	16.5	21.0
9 28	2 29.42	+26 13.9	2.008	2.852	13.0	20.6	9 28	2 35.21	+21 33.3	1.850	2.706	13.3	20.8
10 8	2 23.95	+25 50.4	1.943	2.857	9.8	20.4	10 8	2 27.93	+21 8.9	1.794	2.721	9.7	20.6
10 18	2 16.79	+25 8.7	1.902	2.863	6.5	20.2	10 18	2 18.79	+20 28.9	1.762	2.735	5.7	20.4
10 28	2 8.79	+24 10.8	1.888	2.869	3.8	20.0	10 28	2 8.78	+19 36.0	1.759	2.748	2.3	20.2
11 7	2 0.95	+23 1.4	1.902	2.876	4.5	20.1	11 7	1 59.04	+18 35.6	1.784	2.761	4.3	20.3
11 17	1 54.19	+21 47.2	1.944	2.882	7.6	20.3	11 17	1 50.60	+17 34.4	1.838	2.773	8.2	20.6
11 27	1 49.27	+20 35.4	2.013	2.889	10.8	20.5	11 27	1 44.27	+16 39.1	1.919	2.784	11.8	20.9
45													

EPHEMERIDES

10 27.8

10 27.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
514873	2008 <i>HK</i> ₂₂	10 27.8 107°10' 2 ^s .5/24.9 18					157414	2004 <i>TU</i> ₂₈₅	10 27.8 14°01' 1 ^s .8/28.9 18				
9 18	2 32.89	+ 8 33.5	2.561	3.360	11.9	22.4	9 18	2 37.56	+16 44.7	1.867	2.656	16.1	19.3
9 28	2 28.76	+ 7 23.9	2.495	3.380	9.3	22.2	9 28	2 33.49	+17 18.0	1.786	2.659	13.0	19.1
10 8	2 23.04	+ 6 8.1	2.452	3.400	6.3	22.1	10 8	2 26.93	+17 41.7	1.725	2.663	9.3	18.9
10 18	2 16.19	+ 4 50.4	2.438	3.419	3.5	21.9	10 18	2 18.40	+17 55.3	1.689	2.667	5.2	18.7
10 28	2 8.85	+ 3 35.8	2.454	3.437	2.7	21.9	10 28	2 8.83	+17 59.6	1.680	2.671	1.8	18.5
11 7	2 1.74	+ 2 29.6	2.500	3.456	5.1	22.1	11 7	1 59.34	+17 57.3	1.699	2.677	4.4	18.7
11 17	1 55.47	+ 1 35.7	2.575	3.473	7.9	22.3	11 17	1 51.01	+17 52.3	1.746	2.682	8.4	18.9
11 27	1 50.59	+ 0 56.7	2.676	3.491	10.4	22.5	11 27	1 44.75	+17 49.2	1.818	2.688	12.1	19.2
227968	2007 <i>HZ</i> ₂₇	10 27.8 160°49' 0 ^s .3/27.5 18					147539	2004 <i>EB</i> ₂₇	10 27.8 266°68' 0 ^s .3/27.6 18				
9 18	2 32.47	+14 50.4	2.615	3.398	12.1	21.0	9 18	2 37.09	+14 40.5	1.661	2.465	17.1	20.5
9 28	2 28.61	+14 20.2	2.527	3.401	9.6	20.8	9 28	2 33.62	+14 22.1	1.563	2.449	13.8	20.2
10 8	2 23.07	+13 40.9	2.462	3.404	6.6	20.6	10 8	2 27.35	+13 50.2	1.486	2.432	9.7	19.9
10 18	2 16.27	+12 54.4	2.425	3.407	3.3	20.4	10 18	2 18.76	+13 6.6	1.432	2.415	4.9	19.6
10 28	2 8.86	+12 4.1	2.416	3.409	0.3	20.2	10 28	2 8.82	+12 15.4	1.405	2.398	0.4	19.2
11 7	2 1.55	+11 14.2	2.438	3.412	3.6	20.4	11 7	1 58.78	+11 23.0	1.405	2.381	5.4	19.6
11 17	1 55.03	+10 28.7	2.489	3.414	6.9	20.7	11 17	1 49.93	+10 36.3	1.432	2.363	10.4	19.8
11 27	1 49.89	+ 9 51.6	2.567	3.416	9.8	20.9	11 27	1 43.34	+10 1.9	1.483	2.345	14.8	20.0
115936	2003 <i>WF</i> ₂₆	10 27.8 291°32' 8 ^s .6/20.8 18					36046	1999 <i>RH</i> ₁₄	10 27.8 42°61' 5 ^s .0/23.3 18				
9 18	2 34.84	- 7 13.3	1.800	2.624	15.2	19.6	9 18	2 31.69	+ 2 40.7	1.920	2.746	14.3	18.4
9 28	2 31.23	- 8 32.0	1.731	2.618	12.6	19.4	9 28	2 28.49	+ 1 28.1	1.855	2.753	11.3	18.2
10 8	2 25.27	- 9 46.7	1.684	2.612	10.1	19.3	10 8	2 23.21	+ 0 12.0	1.813	2.761	8.1	18.1
10 18	2 17.50	-10 49.4	1.661	2.606	8.7	19.2	10 18	2 16.40	- 1 1.4	1.796	2.769	5.5	17.9
10 28	2 8.83	-11 31.9	1.664	2.600	9.2	19.2	10 28	2 8.88	- 2 5.1	1.806	2.777	5.4	17.9
11 7	2 0.31	-11 48.8	1.692	2.594	11.2	19.3	11 7	2 1.57	- 2 53.0	1.844	2.786	7.8	18.1
11 17	1 52.93	-11 38.0	1.743	2.589	13.9	19.5	11 17	1 55.31	- 3 21.3	1.908	2.794	10.9	18.3
11 27	1 47.51	-11 0.9	1.815	2.583	16.4	19.6	11 27	1 50.80	- 3 28.7	1.994	2.803	13.7	18.5
421945	2014 <i>QL</i> ₂₅₃	10 27.8 279°69' 0 ^s .5/27.4 18					482262	2011 <i>QJ</i> ₄₅	10 27.8 49°06' 7 ^s .1/ 2.2 18				
9 18	2 36.10	+11 44.9	2.333	3.123	13.2	20.8	9 18	2 38.61	+31 9.8	1.717	2.454	19.2	20.8
9 28	2 31.76	+11 48.3	2.241	3.119	10.5	20.6	9 28	2 34.93	+31 58.6	1.640	2.462	16.4	20.6
10 8	2 25.42	+11 45.5	2.171	3.115	7.2	20.4	10 8	2 28.25	+32 26.5	1.580	2.470	13.2	20.4
10 18	2 17.54	+11 37.7	2.128	3.111	3.6	20.1	10 18	2 19.17	+32 29.3	1.542	2.479	9.9	20.3
10 28	2 8.83	+11 27.4	2.114	3.107	0.5	19.9	10 28	2 8.82	+32 5.7	1.527	2.488	7.5	20.1
11 7	2 0.16	+11 17.5	2.129	3.103	4.1	20.2	11 7	1 58.62	+31 18.7	1.539	2.497	7.4	20.2
11 17	1 52.36	+11 11.2	2.173	3.099	7.7	20.4	11 17	1 49.91	+30 15.3	1.577	2.507	9.7	20.3
11 27	1 46.16	+11 11.4	2.244	3.095	10.9	20.6	11 27	1 43.74	+29 5.2	1.639	2.516	12.8	20.5
352358	2007 <i>VO</i> ₁₉₀	10 27.8 34°36' 5 ^s .1/25.1 18					121852	2000 <i>CU</i> ₃₁	10 27.8 278°01' 6 ^s .2/21.1 17				
9 18	2 37.83	+ 2 0.6	1.379	2.215	18.4	20.2	9 18	2 31.21	- 3 23.9	2.362	3.180	12.2	20.1
9 28	2 34.00	+ 1 36.4	1.327	2.231	14.5	20.0	9 28	2 27.88	- 4 41.7	2.276	3.164	9.9	19.9
10 8	2 27.31	+ 1 11.6	1.295	2.247	10.2	19.8	10 8	2 22.73	- 6 0.0	2.213	3.147	7.7	19.8
10 18	2 18.51	+ 0 51.7	1.286	2.265	6.3	19.6	10 18	2 16.18	- 7 12.7	2.177	3.131	6.3	19.7
10 28	2 8.81	+ 0 42.8	1.302	2.283	5.4	19.6	10 28	2 8.89	- 8 13.4	2.168	3.115	6.7	19.7
11 7	1 59.57	+ 0 49.4	1.344	2.302	8.3	19.8	11 7	2 1.62	- 8 56.8	2.187	3.098	8.6	19.7
11 17	1 51.94	+ 1 13.2	1.411	2.321	12.2	20.1	11 17	1 55.13	- 9 19.6	2.232	3.082	11.0	19.9
11 27	1 46.78	+ 1 54.2	1.500	2.341	15.8	20.4	11 27	1 50.07	- 9 20.7	2.299	3.065	13.4	20.0
7316	Hajdu	10 27.8 325°30' 3 ^s .1/25.4 18					135890	2002 <i>TF</i> ₆₃	10 27.8 347°33' 1 ^s .6/29.0 18				
9 18	2 32.63	+ 7 44.4	1.740	2.564	15.6	18.2	9 18	2 34.67	+19 13.4	1.815	2.604	16.5	19.4
9 28	2 29.70	+ 7 4.5	1.656	2.555	12.4	18.0	9 28	2 31.32	+19 8.1	1.730	2.603	13.3	19.1
10 8	2 24.35	+ 6 16.9	1.593	2.546	8.6	17.7	10 8	2 25.48	+18 48.2	1.664	2.602	9.5	18.9
10 18	2 17.11	+ 5 25.8	1.554	2.537	4.7	17.5	10 18	2 17.69	+18 14.1	1.623	2.601	5.3	18.7
10 28	2 8.84	+ 4 37.3	1.542	2.529	3.3	17.4	10 28	2 8.86	+17 28.8	1.608	2.600	1.7	18.4
11 7	2 0.64	+ 3 57.7	1.557	2.521	6.6	17.6	11 7	2 0.13	+16 37.5	1.621	2.599	4.5	18.6
11 17	1 53.53	+ 3 32.2	1.598	2.514	10.7	17.8	11 17	1 52.57	+15 46.6	1.661	2.598	8.7	18.9
11 27	1 48.41	+ 3 24.2	1.662	2.507	14.4	18.0	11 27	1 47.07	+15 2.6	1.726	2.598	12.5	19.1
86226	1999 <i>TC</i> ₁₀₂	10 27.8 357°09' 5 ^s .9/23.2 18					464419	2016 <i>BY</i> ₂₆	10 27.8 341°81' 5 ^s .4/31.7 16				
9 18	2 33.47	- 1 31.0	1.902	2.727	14.5	18.4	9 18	2 32.68	+26 32.0	1.790	2.556	17.5	21.0
9 28	2 29.98	- 2 20.0	1.831	2.726	11.6	18.2	9 28	2 30.16	+27 14.0	1.696	2.543	14.8	20.8
10 8	2 24.31	- 3 8.5	1.782	2.724	8.6	18.0	10 8	2 24.98	+27 39.3	1.620	2.532	11.6	20.6
10 18	2 16.99	- 3 50.5	1.757	2.724	6.3	17.9	10 18	2 17.57	+27 45.1	1.565	2.521	8.2	20.4
10 28	2 8.85	- 4 20.0	1.759	2.723	6.3	17.9	10 28	2 8.86	+27 30.5	1.536	2.511	5.7	20.2
11 7	2 0.87	- 4 32.3	1.788	2.723	8.5	18.0	11 7	2 0.06	+26 58.0	1.533	2.502	6.1	20.2
11 17	1 53.96	- 4 25.0	1.842	2.724	11.5	18.2	11 17	1 52.39	+26 13.0	1.556	2.493	9.1	20.4
11 27	1 48.86	- 3 57.7	1.919	2.724	14.3	18.4	11 27	1 46.92	+25 23.6	1.603	2.486	12.6	20.6
394472	2007 <i>TC</i> ₁₁	10 27.8 15°11' 0 ^s .5/28.0 18					385440	2003 <i>MC</i> ₆	10 27.8 62°02' 6 ^s .2/23.4 18				
9 18	2 36.74	+13 29.3	1.354	2.177	19.3	20.1	9 18	2 36.11	+ 1 31.7	1.524	2.357	17.1	20.3
9 28	2 33.62	+13 53.6	1.287	2.182	15.4	19.9	9 28	2 32.31	+ 0 15.7	1.476	2.377	13.4	20.1
10 8	2 27.41	+14 7.6	1.238	2.188	10.8	19.6	10 8	2 25.96	- 1 2.2	1.449	2.398	9.7	19.9
10 18	2 18.74	+14 12.1	1.211	2.194	5.6	19.4	10 18	2 17.78	- 2 13.9	1.446	2.418	6.7	19.8
10 28	2 8.81	+14 9.6	1.209	2.202	0.5	19.0	10 28	2 8.87	- 3 11.2	1.470	2.439	6.6	19.9
11 7	1 59.10	+14 4.4	1.233	2.211	5.5	19.4	11 7	2 0.39	- 3 47.8	1.519	2.460	9.2	20.1
11 17	1 50.98	+14 1.3	1.282	2.221	10.5	19.7	11 17	1 53.38	- 4 0.7	1.593	2.481	12.5	20.3
11 27	1 45.50	+14 5.4	1.353	2.231	14.9	20.0	11 27	1 48.56	- 3 49.9	1.689	2.502	15.6	20.6
347293	2011 <i>OT</i> ₂	10 27.8 244°08' 4 ^s .0/31.3 18					17082	1999 <i>JC</i> ₃	10 27.8 140°39' 1 ^s .6/26.4 18				
9 18	2 36.37	+26 37.2	2.038	2.786	16.2	21.5	9 18	2 34.31	+10 29.7	2.099	2.903	14.0	18.0
9 28	2 3												

EPHEMERIDES

10 27.8

10 27.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
156847	2003 CA ₁₃	10 27.8 279°08 2°8/26.1 18					484850	2009 HF ₈₈	10 27.8 307°55 2°2/29.7 17 C				
9 18	2 38.94	+ 7 36.4	1.711	2.524	16.3	19.9	9 18	2 37.02	+25 44.4	1.789	2.550	17.7	23.5
9 28	2 35.05	+ 7 16.6	1.608	2.499	13.1	19.6	9 28	2 34.06	+24 48.8	1.641	2.495	14.9	23.2
10 8	2 28.38	+ 6 49.8	1.524	2.474	9.2	19.3	10 8	2 28.12	+23 22.7	1.512	2.438	11.3	22.8
10 18	2 19.34	+ 6 19.4	1.465	2.448	4.9	19.0	10 18	2 19.45	+21 22.9	1.407	2.380	6.8	22.4
10 28	2 8.85	+ 5 50.3	1.434	2.422	3.0	18.8	10 28	2 8.87	+18 50.3	1.330	2.320	2.5	22.0
11 7	1 58.14	+ 5 28.3	1.429	2.396	6.8	19.0	11 7	1 57.66	+15 53.1	1.282	2.260	5.4	22.1
11 17	1 48.49	+ 5 18.3	1.452	2.369	11.4	19.2	11 17	1 47.30	+12 45.6	1.265	2.199	11.1	22.2
11 27	1 41.04	+ 5 24.2	1.497	2.342	15.6	19.4	11 27	1 39.19	+ 9 45.3	1.274	2.137	16.7	22.4
446241	2013 HW ₄	10 27.8 89°64 6°5/22.1 18					432656	2010 XR ₇₄	10 27.8 347°79 0°4/27.9 18				
9 18	2 33.82	- 3 26.8	2.065	2.884	13.7	20.3	9 18	2 37.44	+12 54.3	1.139	1.975	21.4	21.1
9 28	2 30.04	- 4 32.8	1.997	2.886	11.0	20.1	9 28	2 35.01	+13 23.4	1.066	1.969	17.2	20.8
10 8	2 24.23	- 5 37.4	1.953	2.889	8.4	19.9	10 8	2 28.94	+13 42.3	1.009	1.963	12.2	20.5
10 18	2 16.93	- 6 34.3	1.934	2.891	6.7	19.8	10 18	2 19.79	+13 51.4	0.973	1.958	6.3	20.2
10 28	2 8.91	- 7 17.0	1.942	2.894	6.9	19.9	10 28	2 8.87	+13 53.0	0.961	1.954	0.4	19.8
11 7	2 1.06	- 7 40.9	1.977	2.896	8.9	20.0	11 7	1 57.98	+13 51.6	0.972	1.951	6.3	20.2
11 17	1 54.22	- 7 43.6	2.037	2.899	11.5	20.2	11 17	1 48.88	+13 53.0	1.007	1.950	12.2	20.5
11 27	1 49.07	- 7 25.2	2.120	2.901	14.0	20.3	11 27	1 42.91	+14 2.8	1.063	1.949	17.4	20.8
353016	2009 BX ₁₆₉	10 27.8 194°07 7°8/ 3.3 18					72286	2001 BL ₉	10 27.8 203°90 3°2/30.6 18				
9 18	2 40.05	+34 45.1	2.029	2.728	17.6	21.0	9 18	2 39.01	+23 56.0	2.385	3.127	14.3	20.3
9 28	2 35.87	+35 37.9	1.937	2.727	15.4	20.9	9 28	2 34.25	+24 9.9	2.284	3.123	11.8	20.1
10 8	2 28.86	+36 11.2	1.863	2.727	12.8	20.7	10 8	2 27.28	+24 10.3	2.204	3.117	8.9	19.9
10 18	2 19.51	+36 20.3	1.810	2.726	10.2	20.5	10 18	2 18.57	+23 56.4	2.149	3.111	5.7	19.7
10 28	2 8.85	+36 2.6	1.782	2.725	8.2	20.4	10 28	2 8.91	+23 28.7	2.122	3.105	3.3	19.5
11 7	1 58.18	+35 19.7	1.780	2.724	7.9	20.4	11 7	1 59.24	+22 50.0	2.125	3.098	4.3	19.6
11 17	1 48.78	+34 17.2	1.805	2.722	9.5	20.5	11 17	1 50.50	+22 5.0	2.158	3.090	7.3	19.8
11 27	1 41.72	+33 3.8	1.855	2.721	12.1	20.6	11 27	1 43.51	+21 19.6	2.217	3.082	10.4	19.9
304918	2007 RK ₂₉₆	10 27.8 239°84 0°5/27.3 18					239334	2007 RQ ₈₀	10 27.8 84°97 5°6/22.9 18				
9 18	2 34.50	+14 48.6	2.321	3.107	13.4	21.8	9 18	2 34.98	+ 2 53.4	1.767	2.591	15.4	21.0
9 28	2 30.61	+14 10.0	2.217	3.093	10.7	21.6	9 28	2 31.13	+ 1 20.8	1.713	2.610	12.1	20.8
10 8	2 24.71	+13 19.8	2.136	3.079	7.4	21.3	10 8	2 25.03	- 0 15.7	1.681	2.629	8.7	20.6
10 18	2 17.24	+12 20.3	2.081	3.064	3.7	21.1	10 18	2 17.33	- 1 48.3	1.675	2.647	6.0	20.5
10 28	2 8.91	+11 15.5	2.055	3.048	0.6	20.8	10 28	2 8.95	- 3 8.6	1.697	2.665	6.0	20.5
11 7	2 0.57	+10 10.7	2.059	3.032	4.3	21.1	11 7	2 0.91	- 4 9.8	1.746	2.683	8.5	20.7
11 17	1 53.08	+ 9 11.6	2.092	3.016	8.1	21.3	11 17	1 54.12	- 4 47.9	1.821	2.701	11.6	21.0
11 27	1 47.16	+ 8 23.1	2.152	2.999	11.5	21.5	11 27	1 49.26	- 5 2.0	1.918	2.719	14.5	21.2
308924	2006 SR ₃₃₁	10 27.8 1°43 0°3/27.6 18					335456	2005 UX ₅₂₀	10 27.8 99°03 1°1/26.9 16				
9 18	2 34.09	+14 10.4	1.743	2.551	16.3	21.1	9 18	2 38.70	+13 57.3	1.682	2.484	17.0	22.2
9 28	2 30.86	+13 55.2	1.663	2.551	13.0	20.9	9 28	2 34.28	+13 13.8	1.619	2.504	13.4	22.0
10 8	2 25.16	+13 28.5	1.603	2.550	9.0	20.7	10 8	2 27.33	+12 17.7	1.576	2.523	9.2	21.8
10 18	2 17.53	+12 52.4	1.567	2.550	4.5	20.4	10 18	2 18.53	+11 12.7	1.558	2.542	4.5	21.6
10 28	2 8.90	+12 11.1	1.557	2.551	0.4	20.1	10 28	2 8.92	+10 4.8	1.568	2.561	1.2	21.4
11 7	2 0.39	+11 30.0	1.576	2.552	4.9	20.4	11 7	1 59.70	+ 9 1.2	1.607	2.579	5.4	21.7
11 17	1 53.06	+10 54.9	1.621	2.553	9.3	20.7	11 17	1 51.89	+ 8 8.4	1.673	2.597	9.6	22.0
11 27	1 47.78	+10 30.8	1.690	2.554	13.2	20.9	11 27	1 46.28	+ 7 31.0	1.763	2.615	13.3	22.3
163886	2003 SJ ₁₈₅	10 27.8 292°57 2°8/25.7 18					515056	2010 JQ ₄₃	10 27.8 161°96 3°9/24.7 18				
9 18	2 35.34	+ 8 18.2	1.760	2.577	15.8	20.2	9 18	2 36.81	+ 3 49.9	2.050	2.860	14.1	22.1
9 28	2 31.75	+ 7 41.1	1.680	2.575	12.5	20.0	9 28	2 32.44	+ 3 9.1	1.974	2.863	11.1	22.0
10 8	2 25.73	+ 6 57.1	1.621	2.573	8.6	19.8	10 8	2 25.94	+ 2 24.9	1.920	2.866	7.8	21.8
10 18	2 17.80	+ 6 9.1	1.587	2.570	4.6	19.6	10 18	2 17.83	+ 1 41.9	1.892	2.869	4.8	21.6
10 28	2 8.90	+ 5 23.1	1.580	2.568	3.0	19.4	10 28	2 8.94	+ 1 5.3	1.892	2.871	4.1	21.5
11 7	2 0.12	+ 4 45.1	1.601	2.566	6.4	19.7	11 7	2 0.21	+ 0 39.9	1.921	2.873	6.7	21.7
11 17	1 52.50	+ 4 20.2	1.648	2.564	10.4	19.9	11 17	1 52.52	+ 0 28.9	1.977	2.875	10.0	21.9
11 27	1 46.91	+ 4 11.6	1.719	2.562	14.0	20.1	11 27	1 46.61	+ 0 34.1	2.058	2.876	13.0	22.1
170587	2003 XZ ₂₉	10 27.8 154°99 3°4/25.2 18					267172	2000 JC ₁₀	10 27.8 217°87 10°4/19.7 18				
9 18	2 38.62	+ 4 2.3	2.149	2.952	13.8	20.5	9 18	2 43.07	-15 53.9	2.042	2.828	15.0	21.2
9 28	2 33.74	+ 3 37.1	2.072	2.958	10.9	20.3	9 28	2 37.48	-17 2.1	1.971	2.820	13.0	21.1
10 8	2 26.76	+ 3 9.4	2.017	2.963	7.6	20.1	10 8	2 29.48	-17 59.8	1.922	2.811	11.3	21.0
10 18	2 18.21	+ 2 42.8	1.989	2.967	4.5	19.9	10 18	2 19.65	-18 38.9	1.897	2.801	10.4	20.9
10 28	2 8.90	+ 2 21.5	1.989	2.971	3.6	19.9	10 28	2 8.91	-18 52.3	1.898	2.791	10.9	20.9
11 7	1 59.75	+ 2 9.5	2.019	2.975	6.1	20.1	11 7	1 58.33	-18 36.2	1.923	2.779	12.4	21.0
11 17	1 51.64	+ 2 9.5	2.077	2.978	9.4	20.3	11 17	1 48.95	-17 50.7	1.973	2.768	14.5	21.1
11 27	1 45.27	+ 2 22.9	2.160	2.981	12.4	20.5	11 27	1 41.58	-16 38.8	2.044	2.755	16.6	21.2
480966	2003 UP ₂₀₆	10 27.8 0°42 3°8/26.9 17					151892	2004 BR ₉₁	10 27.8 123°28 1°6/29.2 18				
9 18	2 40.37	+ 0 51.1	1.034	1.887	21.9	19.5	9 18	2 34.99	+19 56.6	1.969	2.749	15.6	20.3
9 28	2 37.45	+ 1 49.6	0.969	1.882	17.7	19.2	9 28	2 31.34	+19 44.2	1.884	2.751	12.7	20.1
10 8	2 30.64	+ 2 56.2	0.921	1.878	12.5	18.9	10 8	2 25.37	+19 17.1	1.819	2.753	9.1	19.9
10 18	2 20.62	+ 4 13.4	0.894	1.878	7.0	18.6	10 18	2 17.62	+18 36.2	1.778	2.755	5.1	19.7
10 28	2 8.84	+ 5 42.2	0.890	1.879	3.9	18.5	10 28	2 8.95	+17 44.3	1.765	2.757	1.7	19.4
11 7	1 57.25	+ 7 21.0	0.910	1.883	8.1	18.7	11 7	2 0.40	+16 46.8	1.781	2.759	4.2	19.6
11 17	1 47.68	+ 9 6.8	0.953	1.890	13.6	19.1	11 17	1 52.96	+15 49.7	1.824	2.760	8.1	19.9
11 27	1 41.47	+10 57.1	1.018	1.898	18.4	19.4	11 27	1 47.43	+14 59.4	1.894	2.762	11.8	20.1
61169	2000 NY ₂₀	10 27.8 70°94 3°7/30.6 18					320331	2007 TL ₁₀₉	10 27.8 38°39 5°8/30.9 15				
9 18	2 38.13	+24 14.2	1.582	2.357	19.0	19.0	9 18	2 39.83	+23 53.4	1.084	1.893	24.1	20.5
9 28	2 34.34	+24 19.2	1.514	2.373	15.6	18.8	9 28	2 37.04	+24 47.7	1.028	1.905	19.9	20.3
10 8	2												

EPHEMERIDES

10 27.8

10 27.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
325644	2009	<i>SJ</i> ₃₂₁	10 27.8 253°93	0°9/26.9	18		419441	2010	<i>CS</i> ₇₆	10 27.8 216°83	3°2/31.2	17	
9 18	2 33.45	+11 46.3	2.352	3.148	13.0	21.5	9 18	2 33.55	+25 26.3	2.803	3.538	12.5	20.9
9 28	2 29.64	+11 26.8	2.264	3.146	10.2	21.3	9 28	2 29.59	+25 41.0	2.706	3.538	10.4	20.8
10 8	2 23.96	+10 59.9	2.198	3.144	7.0	21.1	10 8	2 23.88	+25 43.5	2.631	3.537	7.9	20.6
10 18	2 16.83	+10 27.5	2.158	3.142	3.5	20.9	10 18	2 16.81	+25 33.2	2.580	3.536	5.3	20.4
10 28	2 8.97	+9 53.3	2.147	3.140	1.0	20.7	10 28	2 9.02	+25 10.8	2.558	3.536	3.4	20.3
11 7	2 1.18	+9 21.1	2.165	3.137	4.3	20.9	11 7	2 1.26	+24 38.5	2.565	3.535	3.9	20.3
11 17	1 54.24	+8 54.8	2.212	3.135	7.7	21.2	11 17	1 54.25	+24 0.1	2.602	3.534	6.2	20.5
11 27	1 48.83	+8 37.8	2.285	3.133	10.8	21.4	11 27	1 48.65	+23 20.1	2.666	3.533	8.8	20.7
346638	2008	<i>XH</i> ₃	10 27.8 334°78	0°9/27.2	18		17930	Kennethott	10 27.8 77°86	0°2/27.7	18		
9 18	2 27.01	+15 5.6	1.235	2.078	19.7	19.5	9 18	2 39.06	+16 1.2	1.343	2.156	20.0	17.9
9 28	2 26.48	+14 31.5	1.148	2.057	15.8	19.2	9 28	2 35.28	+15 29.1	1.283	2.174	15.8	17.7
10 8	2 22.89	+13 37.8	1.080	2.037	11.1	18.9	10 8	2 28.40	+14 40.4	1.243	2.191	11.0	17.5
10 18	2 16.70	+12 27.3	1.032	2.018	5.6	18.5	10 18	2 19.20	+13 38.2	1.225	2.209	5.5	17.2
10 28	2 8.97	+11 7.0	1.008	2.001	1.0	18.2	10 28	2 8.97	+12 29.1	1.232	2.226	0.3	16.9
11 7	2 1.16	+9 47.2	1.007	1.985	6.6	18.5	11 7	1 59.20	+11 21.8	1.267	2.243	5.7	17.3
11 17	1 54.74	+8 38.7	1.030	1.970	12.4	18.8	11 17	1 51.17	+10 24.6	1.326	2.260	10.8	17.7
11 27	1 50.94	+7 50.4	1.074	1.958	17.4	19.0	11 27	1 45.81	+9 43.9	1.409	2.277	15.1	18.0
487751	2015	<i>RA</i> ₁₂₂	10 27.8 355°20	5°7/24.0	18		471550	2012	<i>LP</i> ₄	10 27.8 91°69	3°8/31.2	16	
9 18	2 34.11	+0 47.3	1.612	2.446	16.3	20.3	9 18	2 41.59	+27 29.4	1.744	2.491	18.6	21.6
9 28	2 30.96	+0 5.2	1.541	2.443	13.0	20.0	9 28	2 36.61	+27 8.7	1.681	2.520	15.3	21.5
10 8	2 25.27	-0 38.0	1.491	2.440	9.4	19.8	10 8	2 28.94	+26 25.6	1.637	2.549	11.5	21.3
10 18	2 17.61	-1 16.4	1.464	2.438	6.4	19.7	10 18	2 19.34	+25 20.2	1.616	2.577	7.4	21.1
10 28	2 8.96	-1 43.1	1.463	2.437	6.0	19.6	10 28	2 8.97	+23 56.1	1.622	2.605	4.1	21.0
11 7	2 0.48	-1 52.6	1.488	2.436	8.7	19.8	11 7	1 59.12	+22 20.7	1.657	2.632	5.0	21.1
11 17	1 53.24	-1 42.3	1.538	2.437	12.2	20.0	11 17	1 50.88	+20 43.3	1.721	2.658	8.5	21.4
11 27	1 48.11	-1 11.4	1.610	2.437	15.6	20.2	11 27	1 45.01	+19 13.1	1.811	2.683	12.0	21.7
388011	2005	<i>RR</i> ₃₀	10 27.8	3°82	0°3/27.9	18	310609	2001	<i>XZ</i> ₂₂₄	10 27.8 37°59	2°7/30.1	18	
9 18	2 31.56	+14 47.1	1.083	1.929	21.6	21.1	9 18	2 34.77	+22 13.0	1.880	2.656	16.4	20.3
9 28	2 30.30	+14 51.2	1.019	1.927	17.3	20.8	9 28	2 31.33	+22 17.0	1.800	2.661	13.4	20.1
10 8	2 25.57	+14 39.6	0.971	1.927	12.2	20.5	10 8	2 25.46	+22 5.2	1.739	2.667	9.9	19.9
10 18	2 18.01	+14 13.9	0.943	1.929	6.3	20.2	10 18	2 17.71	+21 37.4	1.702	2.673	6.0	19.7
10 28	2 8.95	+13 39.1	0.938	1.932	0.3	19.8	10 28	2 9.00	+20 55.7	1.691	2.679	2.9	19.5
11 7	2 0.11	+13 2.8	0.956	1.936	6.3	20.2	11 7	2 0.45	+20 4.9	1.708	2.685	4.5	19.6
11 17	1 53.05	+12 33.2	0.997	1.942	12.0	20.6	11 17	1 53.07	+19 11.2	1.753	2.692	8.2	19.8
11 27	1 48.96	+12 17.0	1.059	1.950	17.0	20.9	11 27	1 47.71	+18 21.4	1.823	2.699	11.8	20.1
293843	2007	<i>RZ</i> ₂₁₆	10 27.8	0°02	3°5/29.2	18	154207	2002	<i>JH</i> ₅	10 27.8 148°54	0°1/27.7	18	
9 18	2 38.70	+17 13.1	1.052	1.883	23.1	20.3	9 18	2 37.25	+12 52.3	2.406	3.189	13.0	20.0
9 28	2 36.42	+18 15.0	0.983	1.880	18.9	20.0	9 28	2 32.58	+12 57.4	2.319	3.192	10.4	19.8
10 8	2 30.17	+19 4.0	0.931	1.878	13.8	19.7	10 8	2 25.97	+12 55.9	2.254	3.195	7.2	19.6
10 18	2 20.52	+19 36.9	0.899	1.878	8.1	19.4	10 18	2 17.87	+12 48.8	2.216	3.198	3.6	19.4
10 28	2 8.91	+19 52.7	0.888	1.878	3.6	19.2	10 28	2 9.01	+12 38.1	2.207	3.201	0.2	19.1
11 7	1 57.35	+19 54.3	0.901	1.880	6.7	19.3	11 7	2 0.22	+12 26.9	2.228	3.203	3.8	19.4
11 17	1 47.81	+19 48.1	0.937	1.883	12.4	19.7	11 17	1 52.33	+12 18.1	2.278	3.205	7.3	19.7
11 27	1 41.76	+19 42.9	0.993	1.887	17.5	20.0	11 27	1 46.01	+12 14.9	2.356	3.207	10.4	19.9
366158	2012	<i>FJ</i> ₈	10 27.8 325°36	3°3/24.7	18		364036	2005	<i>WD</i> ₄₆	10 27.8 11°76	3°6/25.3	18	
9 18	2 31.07	+7 22.5	2.032	2.850	13.9	20.6	9 18	2 35.53	+4 5.2	1.852	2.671	15.0	20.6
9 28	2 28.05	+6 21.3	1.949	2.845	10.9	20.4	9 28	2 31.72	+3 44.3	1.777	2.672	11.9	20.4
10 8	2 23.00	+5 12.4	1.889	2.840	7.6	20.2	10 8	2 25.61	+3 20.6	1.725	2.674	8.3	20.2
10 18	2 16.40	+4 0.6	1.855	2.836	4.3	20.0	10 18	2 17.75	+2 58.3	1.697	2.676	4.9	20.0
10 28	2 9.00	+2 52.3	1.848	2.832	3.6	19.9	10 28	2 9.01	+2 42.1	1.696	2.679	3.8	19.9
11 7	2 1.69	+1 53.8	1.870	2.828	6.4	20.1	11 7	2 0.44	+2 36.2	1.723	2.682	6.6	20.1
11 17	1 55.34	+1 10.1	1.919	2.824	9.8	20.3	11 17	1 52.98	+2 43.4	1.777	2.686	10.2	20.3
11 27	1 50.64	+0 44.4	1.992	2.820	13.0	20.5	11 27	1 47.44	+3 5.1	1.854	2.690	13.5	20.6
257628	1999	<i>TG</i> ₁₆₈	10 27.8 66°08	0°1/27.7	18		88827	2001	<i>SJ</i> ₁₆₁	10 27.8 238°06	0°2/27.9	18	
9 18	2 32.38	+16 30.5	2.082	2.875	14.5	20.3	9 18	2 36.83	+16 10.9	1.835	2.628	16.1	19.9
9 28	2 28.99	+15 47.6	2.006	2.885	11.5	20.1	9 28	2 33.07	+15 48.6	1.741	2.619	13.0	19.7
10 8	2 23.56	+14 51.9	1.951	2.895	7.9	19.9	10 8	2 26.77	+15 12.7	1.667	2.610	9.1	19.4
10 18	2 16.63	+13 46.0	1.922	2.905	4.0	19.7	10 18	2 18.45	+14 24.7	1.618	2.600	4.7	19.1
10 28	2 9.00	+12 34.9	1.921	2.915	0.2	19.4	10 28	2 9.00	+13 28.5	1.596	2.590	0.2	18.7
11 7	2 1.56	+11 24.5	1.950	2.925	4.2	19.8	11 7	1 59.56	+12 30.2	1.603	2.579	4.8	19.1
11 17	1 55.15	+10 20.8	2.007	2.935	8.0	20.0	11 17	1 51.25	+11 36.3	1.637	2.568	9.3	19.3
11 27	1 50.44	+9 28.9	2.089	2.946	11.3	20.2	11 27	1 45.00	+10 53.2	1.697	2.557	13.3	19.6
425588	2010	<i>TX</i> ₁₄₃	10 27.8 252°82	2°7/29.6	16		319015	2005	<i>UE</i> ₅₀₂	10 27.8 4°60	3°5/30.3	17	
9 18	2 37.96	+21 11.5	1.475	2.268	19.4	22.2	9 18	2 35.25	+22 0.5	1.757	2.538	17.2	20.8
9 28	2 34.68	+21 15.0	1.391	2.264	15.9	22.0	9 28	2 32.00	+22 29.0	1.675	2.538	14.2	20.5
10 8	2 28.28	+20 59.8	1.326	2.261	11.7	21.7	10 8	2 26.12	+22 42.8	1.611	2.538	10.6	20.3
10 18	2 19.32	+20 25.0	1.282	2.257	6.9	21.4	10 18	2 18.13	+22 40.4	1.570	2.540	6.6	20.1
10 28	2 8.94	+19 33.1	1.263	2.253	2.8	21.2	10 28	2 9.00	+22 22.7	1.556	2.541	3.6	19.9
11 7	1 58.63	+18 30.4	1.271	2.249	5.4	21.3	11 7	1 59.94	+21 53.3	1.568	2.544	5.0	20.0
11 17	1 49.82	+17 25.5	1.305	2.245	10.2	21.6	11 17	1 52.10	+21 17.6	1.607	2.546	8.7	20.3
11 27	1 43.64	+16 27.6	1.362	2.241	14.7	21.8	11 27	1 46.45	+20 42.6	1.671	2.550	12.5	20.5
22406	Garyboyle		10 27.8 196°21	4°1/30.9	18		218142						

EPHEMERIDES

10 27.8

10 27.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
55198	2001 <i>RV</i> ₁₈		10 27.8 265°21		2°9/29.8 18		367832	2011 <i>BR</i> ₃₂		10 27.8 183°64		4°8/22.5 18	
9 18	2 38.21	+21 31.8	1.751	2.528	17.4	19.2	9 18	2 31.64	- 1 2.9	2.633	3.444	11.3	21.0
9 28	2 34.59	+21 42.9	1.649	2.512	14.4	19.0	9 28	2 27.93	- 2 4.6	2.557	3.444	9.0	20.8
10 8	2 28.12	+21 38.2	1.566	2.495	10.7	18.7	10 8	2 22.63	- 3 6.8	2.505	3.444	6.7	20.7
10 18	2 19.28	+21 16.4	1.506	2.478	6.5	18.5	10 18	2 16.15	- 4 4.8	2.480	3.443	5.0	20.6
10 28	2 8.99	+20 38.3	1.472	2.460	3.0	18.2	10 28	2 9.10	- 4 53.6	2.484	3.443	5.1	20.6
11 7	1 58.56	+19 48.5	1.466	2.443	5.1	18.3	11 7	2 2.15	- 5 29.0	2.517	3.442	6.9	20.7
11 17	1 49.29	+18 53.4	1.487	2.425	9.5	18.5	11 17	1 55.94	- 5 48.6	2.576	3.441	9.2	20.9
11 27	1 42.30	+18 1.5	1.533	2.407	13.7	18.7	11 27	1 51.03	- 5 51.2	2.660	3.440	11.5	21.0
256360	2006 <i>XG</i> ₅₉		10 27.8 299°21		2°6/30.0 18		353099	2009 <i>EM</i> ₁₆		10 27.8 108°74		3°0/30.5 18	
9 18	2 34.45	+22 9.5	2.053	2.823	15.4	20.7	9 18	2 38.78	+23 27.4	2.226	2.975	14.9	21.6
9 28	2 30.97	+22 11.8	1.959	2.818	12.6	20.5	9 28	2 33.99	+23 37.3	2.149	2.992	12.2	21.5
10 8	2 25.19	+21 59.3	1.886	2.813	9.3	20.2	10 8	2 27.03	+23 33.1	2.092	3.009	9.1	21.3
10 18	2 17.60	+21 31.8	1.837	2.808	5.7	20.0	10 18	2 18.43	+23 14.2	2.061	3.025	5.7	21.1
10 28	2 9.03	+20 50.9	1.815	2.803	2.7	19.8	10 28	2 9.06	+22 42.2	2.057	3.041	3.1	21.0
11 7	2 0.49	+20 0.9	1.822	2.798	4.3	19.9	11 7	1 59.89	+22 0.6	2.083	3.057	4.2	21.1
11 17	1 52.98	+19 7.5	1.856	2.794	7.9	20.1	11 17	1 51.84	+21 14.6	2.138	3.072	7.3	21.3
11 27	1 47.33	+18 17.2	1.916	2.789	11.4	20.3	11 27	1 45.62	+20 29.9	2.220	3.087	10.3	21.5
192934	2000 <i>AY</i> ₁₂₁		10 27.8 231°73		5°9/ 3.6 18		354272	2002 <i>RY</i> ₁₃₈		10 27.8 20°87		8°6/22.9 18	
9 18	2 35.40	+35 25.3	2.683	3.363	14.2	20.3	9 18	2 32.46	- 2 45.8	1.178	2.036	19.5	19.3
9 28	2 31.41	+35 43.4	2.578	3.356	12.3	20.1	9 28	2 30.22	- 3 54.3	1.137	2.049	15.6	19.1
10 8	2 25.34	+35 43.9	2.492	3.349	10.2	20.0	10 8	2 24.96	- 4 59.1	1.114	2.064	11.8	18.9
10 18	2 17.63	+35 24.5	2.428	3.341	8.0	19.8	10 18	2 17.49	- 5 50.6	1.113	2.080	9.1	18.8
10 28	2 9.03	+34 44.4	2.390	3.334	6.3	19.7	10 28	2 9.08	- 6 19.4	1.134	2.097	9.1	18.9
11 7	2 0.45	+33 45.8	2.380	3.326	6.0	19.7	11 7	2 1.16	- 6 20.2	1.178	2.116	11.6	19.1
11 17	1 52.78	+32 33.3	2.399	3.318	7.4	19.7	11 17	1 54.93	- 5 52.3	1.245	2.136	15.0	19.4
11 27	1 46.78	+31 13.5	2.445	3.310	9.6	19.9	11 27	1 51.23	- 4 58.3	1.330	2.158	18.3	19.6
477598	2010 <i>JX</i> ₁₇₁		10 27.8 313°37		0°3/27.7 18		225764	2001 <i>SG</i> ₂₃₅		10 27.8 78°35		0°7/28.3 18	
9 18	2 46.48	+ 9 14.4	1.684	2.479	17.3	20.5	9 18	2 38.97	+16 2.5	1.572	2.373	18.1	20.7
9 28	2 41.02	+10 2.2	1.592	2.472	13.9	20.3	9 28	2 34.96	+16 0.4	1.501	2.383	14.4	20.5
10 8	2 32.52	+10 48.0	1.521	2.465	9.7	20.0	10 8	2 28.13	+15 45.2	1.450	2.393	10.1	20.3
10 18	2 21.48	+11 31.6	1.475	2.458	5.0	19.7	10 18	2 19.12	+15 18.0	1.422	2.404	5.3	20.0
10 28	2 8.96	+12 13.4	1.457	2.451	0.4	19.3	10 28	2 9.05	+14 42.4	1.420	2.414	0.7	19.7
11 7	1 56.35	+12 54.4	1.469	2.444	5.3	19.7	11 7	1 59.23	+14 4.1	1.446	2.424	5.0	20.0
11 17	1 45.05	+13 35.9	1.509	2.438	10.1	20.0	11 17	1 50.87	+13 29.3	1.499	2.434	9.6	20.3
11 27	1 36.23	+14 20.4	1.574	2.432	14.3	20.2	11 27	1 44.91	+13 3.8	1.575	2.444	13.7	20.6
188239	2002 <i>VM</i> ₄₉		10 27.8 356°71		2°3/26.4 18		20552	1999 <i>RU</i> ₁₁₂		10 27.8 315°20		4°1/24.5 18	
9 18	2 28.60	+12 16.4	1.073	1.929	21.0	19.4	9 18	2 30.56	+ 8 48.9	1.515	2.351	17.0	17.9
9 28	2 27.93	+11 35.6	1.007	1.924	16.7	19.1	9 28	2 28.54	+ 7 29.6	1.429	2.335	13.5	17.6
10 8	2 23.92	+10 37.8	0.958	1.920	11.5	18.8	10 8	2 23.88	+ 5 56.4	1.364	2.320	9.3	17.3
10 18	2 17.21	+ 9 28.1	0.930	1.917	5.8	18.5	10 18	2 17.08	+ 4 15.8	1.323	2.306	5.3	17.1
10 28	2 9.05	+ 8 15.9	0.924	1.916	2.5	18.3	10 28	2 9.09	+ 2 37.4	1.307	2.291	4.5	17.0
11 7	2 1.08	+ 7 12.0	0.942	1.916	7.6	18.6	11 7	2 1.11	+ 1 11.5	1.318	2.278	8.2	17.2
11 17	1 54.80	+ 6 25.7	0.981	1.918	13.2	18.9	11 17	1 54.34	+ 0 6.6	1.354	2.264	12.6	17.4
11 27	1 51.35	+ 6 3.3	1.041	1.922	18.1	19.2	11 27	1 49.75	- 0 32.0	1.411	2.252	16.7	17.6
50074	2000 <i>AN</i> ₈₃		10 27.8 338°04		3°0/26.0 18		5724	1986 <i>WE</i>		10 27.8 270°12		3°9/25.1 18	
9 18	2 35.03	+ 9 15.7	1.343	2.178	18.8	19.2	9 18	2 37.13	+ 5 46.7	1.769	2.586	15.7	17.7
9 28	2 32.37	+ 8 40.3	1.269	2.173	14.9	18.9	9 28	2 33.42	+ 5 5.4	1.673	2.567	12.5	17.4
10 8	2 26.66	+ 7 54.3	1.213	2.168	10.3	18.7	10 8	2 27.13	+ 4 17.2	1.597	2.547	8.8	17.1
10 18	2 18.50	+ 7 2.2	1.179	2.164	5.4	18.4	10 18	2 18.72	+ 3 26.8	1.546	2.527	5.2	16.9
10 28	2 9.03	+ 6 11.5	1.171	2.161	3.2	18.2	10 28	2 9.07	+ 2 40.4	1.523	2.506	4.1	16.8
11 7	1 59.69	+ 5 29.9	1.188	2.157	7.4	18.5	11 7	1 59.33	+ 2 4.7	1.526	2.485	7.4	16.9
11 17	1 51.84	+ 5 4.1	1.229	2.155	12.3	18.8	11 17	1 50.65	+ 1 44.7	1.557	2.464	11.5	17.1
11 27	1 46.54	+ 4 58.1	1.292	2.152	16.7	19.0	11 27	1 44.03	+ 1 43.7	1.610	2.443	15.3	17.3
406313	2007 <i>JY</i> ₁₃		10 27.8 111°14		2°0/26.2 18		85857	1999 <i>AK</i> ₂₄		10 27.8 191°10		4°9/ 1.1 18	
9 18	2 37.41	+ 6 32.1	2.465	3.260	12.5	21.1	9 18	2 38.89	+29 3.1	2.000	2.733	16.9	19.7
9 28	2 32.53	+ 6 26.5	2.387	3.268	9.8	20.9	9 28	2 34.71	+29 12.9	1.906	2.732	14.3	19.5
10 8	2 25.83	+ 6 17.9	2.331	3.276	6.7	20.7	10 8	2 27.91	+29 3.2	1.831	2.730	11.2	19.3
10 18	2 17.77	+ 6 8.6	2.303	3.284	3.6	20.5	10 18	2 19.05	+28 31.7	1.779	2.728	7.8	19.1
10 28	2 9.06	+ 6 1.3	2.304	3.292	2.1	20.4	10 28	2 9.07	+27 38.8	1.753	2.726	5.3	18.9
11 7	2 0.48	+ 5 59.0	2.335	3.300	4.7	20.6	11 7	1 59.18	+26 28.7	1.755	2.723	5.6	18.9
11 17	1 52.79	+ 6 3.9	2.395	3.307	7.8	20.8	11 17	1 50.50	+25 8.3	1.786	2.720	8.4	19.1
11 27	1 46.62	+ 6 17.6	2.482	3.315	10.6	21.0	11 27	1 43.98	+23 46.6	1.843	2.716	11.8	19.3
480688	2015 <i>PR</i> ₅₁		10 27.8 100°82		1°4/26.9 18		358771	2008 <i>DG</i> ₁₈		10 27.8 231°84		4°8/31.9 17	
9 18	2 41.25	+ 9 15.6	2.018	2.812	14.9	20.8	9 18	2 39.19	+27 54.9	2.365	3.089	14.8	21.6
9 28	2 35.93	+ 9 17.0	1.947	2.827	11.7	20.6	9 28	2 34.64	+28 31.7	2.262	3.081	12.5	21.5
10 8	2 28.35	+ 9 13.1	1.898	2.843	8.0	20.4	10 8	2 27.75	+28 54.4	2.178	3.072	9.9	21.3
10 18	2 19.09	+ 9 5.9	1.875	2.858	4.0	20.2	10 18	2 18.96	+29 0.6	2.118	3.064	7.1	21.1
10 28	2 9.04	+ 8 58.3	1.881	2.872	1.4	20.1	10 28	2 9.08	+28 49.3	2.086	3.054	5.1	20.9
11 7	1 59.24	+ 8 53.6	1.916	2.887	4.8	20.3	11 7	1 59.10	+28 22.1	2.083	3.045	5.4	21.0
11 17	1 50.62	+ 8 54.8	1.980	2.901	8.6	20.6	11 17	1 50.06	+27 43.4	2.107	3.035	7.8	21.1
11 27	1 43.94	+ 9 4.5	2.070	2.915	11.9	20.8	11 27	1 42.84	+26 59.1	2.159	3.025	10.6	21.2
104183	2000 <i>EH</i> ₉₆		10 27.8 233°49		1°4/26.8 18		519402	2011 <i>SL</i> ₂₇₉		10 27.8 17°95		2	

EPHEMERIDES

10 27.8

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V		
410638	2008 RQ ₇₁	10 27.8 11°64' 3°9/31.1 18						444505	2006 RT ₉₃	10 27.8 16°31' 1°6/28.9 18					
9 18	2 34.82	+25 0.2	2.143	2.897	15.3	21.3	9 18	2 34.79	+18 25.6	1.693	2.490	17.2	21.1		
9 28	2 31.21	+25 23.9	2.055	2.898	12.7	21.1	9 28	2 31.60	+18 28.5	1.615	2.493	13.8	20.9		
10 8	2 25.34	+25 32.9	1.987	2.900	9.7	20.9	10 8	2 25.82	+18 17.2	1.556	2.496	9.9	20.7		
10 18	2 17.70	+25 26.0	1.943	2.902	6.5	20.7	10 18	2 18.00	+17 52.3	1.521	2.499	5.5	20.4		
10 28	2 9.11	+25 3.7	1.925	2.904	4.1	20.6	10 28	2 9.13	+17 16.6	1.511	2.503	1.7	20.2		
11 7	2 0.58	+24 28.9	1.935	2.907	4.7	20.7	11 7	2 0.39	+16 35.2	1.529	2.508	4.6	20.4		
11 17	1 53.07	+23 46.6	1.974	2.909	7.6	20.8	11 17	1 52.91	+15 54.1	1.574	2.513	9.0	20.7		
11 27	1 47.40	+23 3.0	2.038	2.912	10.8	21.0	11 27	1 47.59	+15 19.9	1.643	2.518	12.9	20.9		
442275	2011 QR ₉₁	10 27.8 351°88' 3°7/30.4 16						513797	2013 CJ ₇₆	10 27.8 157°65' 2°6/25.5 18					
9 18	2 32.12	+22 53.5	1.446	2.245	19.5	21.1	9 18	2 34.63	+ 7 46.1	2.270	3.073	13.1	21.9		
9 28	2 30.17	+23 10.0	1.364	2.239	16.1	20.9	9 28	2 30.58	+ 7 2.7	2.190	3.077	10.3	21.7		
10 8	2 25.23	+23 7.0	1.301	2.234	12.0	20.6	10 8	2 24.62	+ 6 13.4	2.133	3.081	7.1	21.5		
10 18	2 17.85	+22 43.1	1.258	2.230	7.6	20.4	10 18	2 17.23	+ 5 21.7	2.103	3.085	3.9	21.3		
10 28	2 9.10	+22 0.0	1.240	2.227	4.0	20.2	10 28	2 9.15	+ 4 32.5	2.102	3.088	2.7	21.3		
11 7	2 0.41	+21 3.3	1.247	2.224	5.5	20.3	11 7	2 1.20	+ 3 50.5	2.130	3.091	5.4	21.4		
11 17	1 53.14	+20 1.2	1.279	2.223	9.9	20.5	11 17	1 54.17	+ 3 19.7	2.186	3.093	8.7	21.6		
11 27	1 48.38	+19 3.1	1.334	2.223	14.2	20.8	11 27	1 48.71	+ 3 2.9	2.267	3.095	11.6	21.8		
378094	2006 UF ₁₃₄	10 27.8 295°97' 1°5/26.8 18						442983	2013 CQ ₁₅₈	10 27.8 18°78' 5°3/23.4 18					
9 18	2 33.68	+13 48.0	1.433	2.257	18.4	21.8	9 18	2 31.01	+ 4 23.0	1.624	2.460	16.0	20.6		
9 28	2 31.41	+13 6.5	1.339	2.237	14.8	21.5	9 28	2 28.45	+ 3 1.1	1.559	2.464	12.6	20.4		
10 8	2 26.16	+12 7.9	1.263	2.216	10.3	21.2	10 8	2 23.50	+ 1 32.7	1.516	2.469	8.9	20.2		
10 18	2 18.38	+10 55.3	1.211	2.196	5.2	20.9	10 18	2 16.76	+ 0 5.4	1.497	2.474	5.9	20.0		
10 28	2 9.10	+ 9 35.4	1.183	2.176	1.6	20.6	10 28	2 9.17	+ 0 12.0	1.505	2.480	5.7	20.0		
11 7	1 59.69	+ 8 17.5	1.182	2.156	6.6	20.8	11 7	2 1.79	+ 0 11.7	1.539	2.486	8.5	20.2		
11 17	1 51.56	+ 7 11.1	1.205	2.136	12.0	21.1	11 17	1 55.62	+ 0 48.9	1.597	2.493	12.1	20.4		
11 27	1 45.91	+ 6 24.3	1.251	2.116	16.8	21.3	11 27	1 51.43	+ 0 3.4	1.678	2.500	15.3	20.7		
99843	2002 NT ₃₄	10 27.8 357°67' 2°0/29.8 18						289275	2004 XC ₁₄₉	10 27.8 48°33' 2°5/25.9 18					
9 18	2 31.70	+22 6.9	2.176	2.947	14.6	19.0	9 18	2 34.75	+ 7 25.3	2.010	2.821	14.3	20.2		
9 28	2 28.60	+21 49.4	2.086	2.946	11.9	18.8	9 28	2 30.86	+ 7 1.2	1.942	2.833	11.2	20.0		
10 8	2 23.43	+21 16.7	2.017	2.946	8.7	18.6	10 8	2 24.89	+ 6 32.1	1.895	2.844	7.7	19.8		
10 18	2 16.69	+20 29.5	1.973	2.945	5.1	18.3	10 18	2 17.39	+ 6 1.4	1.874	2.856	4.1	19.6		
10 28	2 9.13	+19 30.4	1.956	2.945	2.2	18.2	10 28	2 9.16	+ 5 33.4	1.881	2.869	2.6	19.5		
11 7	2 1.67	+18 24.5	1.967	2.945	3.9	18.3	11 7	2 1.14	+ 5 12.4	1.916	2.881	5.5	19.8		
11 17	1 55.17	+17 17.8	2.008	2.945	7.4	18.5	11 17	1 54.19	+ 5 1.8	1.978	2.894	9.0	20.0		
11 27	1 50.35	+16 16.4	2.074	2.946	10.7	18.7	11 27	1 48.99	+ 5 3.7	2.066	2.906	12.1	20.2		
348784	2006 KK ₁₁₂	10 27.8 55°06' 3°9/24.4 18						109907	2001 SZ ₂₃	10 27.8 332°74' 0°3/27.6 18					
9 18	2 32.60	+ 8 16.1	1.694	2.519	16.0	20.9	9 18	2 31.74	+14 59.4	1.296	2.127	19.6	19.1		
9 28	2 29.60	+ 6 50.5	1.625	2.525	12.5	20.7	9 28	2 30.10	+14 40.3	1.213	2.114	15.7	18.8		
10 8	2 24.23	+ 5 14.6	1.578	2.531	8.6	20.5	10 8	2 25.34	+14 4.6	1.149	2.102	11.0	18.5		
10 18	2 17.10	+ 3 35.3	1.556	2.538	5.0	20.3	10 18	2 17.99	+13 14.6	1.106	2.091	5.6	18.2		
10 28	2 9.13	+ 2 1.2	1.562	2.544	4.3	20.3	10 28	2 9.15	+12 15.7	1.087	2.080	0.4	17.8		
11 7	2 1.39	+ 0 41.0	1.595	2.551	7.5	20.5	11 7	2 0.30	+11 16.4	1.093	2.071	6.1	18.1		
11 17	1 54.86	+ 0 19.1	1.654	2.557	11.2	20.7	11 17	1 52.90	+10 25.6	1.123	2.062	11.7	18.4		
11 27	1 50.29	+ 0 55.6	1.737	2.564	14.6	21.0	11 27	1 48.12	+ 9 50.8	1.174	2.054	16.5	18.7		
132851	2002 RS ₅₁	10 27.8 355°44' 0°8/27.2 18						153014	2000 KQ ₈	10 27.8 71°55' 0°2/27.7 18					
9 18	2 32.86	+11 55.1	2.062	2.866	14.2	19.0	9 18	2 38.65	+15 14.5	1.513	2.320	18.4	20.7		
9 28	2 29.52	+11 43.5	1.977	2.864	11.3	18.8	9 28	2 34.62	+14 51.1	1.453	2.340	14.6	20.5		
10 8	2 24.08	+11 24.0	1.914	2.862	7.8	18.5	10 8	2 27.80	+14 13.9	1.413	2.359	10.1	20.3		
10 18	2 17.03	+10 58.5	1.877	2.861	3.9	18.3	10 18	2 18.92	+13 25.6	1.396	2.379	5.1	20.0		
10 28	2 9.13	+10 30.7	1.867	2.860	0.9	18.1	10 28	2 9.14	+12 31.7	1.405	2.399	0.2	19.7		
11 7	2 1.32	+10 4.7	1.885	2.859	4.5	18.4	11 7	1 59.76	+11 38.9	1.442	2.419	5.2	20.1		
11 17	1 54.46	+ 9 44.6	1.931	2.859	8.4	18.6	11 17	1 51.94	+10 54.1	1.506	2.438	9.8	20.5		
11 27	1 49.30	+ 9 34.0	2.003	2.859	11.7	18.8	11 27	1 46.51	+10 22.5	1.593	2.458	13.8	20.8		
298643	2004 BA ₈₈	10 27.8 294°69' 9°1/19.1 18						383486	2007 BL ₂₈	10 27.9 322°77' 0°5/28.1 18					
9 18	2 32.94	+ 6 48.7	1.834	2.661	14.8	20.1	9 18	2 34.03	+15 37.2	1.305	2.131	19.8	20.9		
9 28	2 30.01	+ 8 31.6	1.746	2.634	12.4	19.9	9 28	2 32.01	+15 36.7	1.219	2.116	16.0	20.6		
10 8	2 24.71	+10 14.7	1.680	2.607	10.2	19.7	10 8	2 26.76	+15 21.0	1.151	2.101	11.4	20.3		
10 18	2 17.48	+11 48.7	1.638	2.580	9.1	19.5	10 18	2 18.77	+14 51.0	1.104	2.087	6.0	20.0		
10 28	2 9.12	+13 3.7	1.622	2.552	9.9	19.5	10 28	2 9.15	+14 10.5	1.081	2.074	0.5	19.6		
11 7	2 0.69	+13 51.9	1.631	2.525	12.1	19.6	11 7	1 59.43	+13 26.2	1.083	2.062	5.9	19.9		
11 17	1 53.22	+14 9.0	1.663	2.497	15.0	19.7	11 17	1 51.17	+12 46.3	1.109	2.050	11.5	20.2		
11 27	1 47.62	+13 54.7	1.715	2.470	17.8	19.9	11 27	1 45.63	+12 18.5	1.157	2.040	16.5	20.5		
221541	2006 UZ ₆₁	10 27.8 103°02' 1°3/28.8 17						406751	2008 JN ₁₃	10 27.9 5°09' 6°3/23.4 18					
9 18	2 37.88	+20 4.8	1.549	2.341	18.7	20.7	9 18	2 34.51	+ 2 9.4	1.781	2.608	15.2	20.6		
9 28	2 34.16	+19 34.6	1.477	2.353	15.0	20.4	9 28	2 31.00	+ 2 54.3	1.713	2.608	12.2	20.4		
10 8	2 27.59	+18 45.2	1.425	2.364	10.7	20.2	10 8	2 25.18	+ 3 37.8	1.666	2.609	9.1	20.2		
10 18	2 18.86	+17 38.4	1.396	2.375	5.8	20.0	10 18	2 17.61	+ 4 13.6	1.644	2.610	6.7	20.1		
10 28	2 9.11	+16 19.4	1.394	2.386	1.3	19.7	10 28	2 9.17	+ 4 35.6	1.648	2.612	6.6	20.1		
11 7	1 59.67	+14 56.4	1.419	2.397	4.9	20.0	11 7	2 0.92	+ 4 39.1	1.678	2.614	8.9	20.2		
11 17	1 51.74	+13 38.2	1.471	2.407	9.7	20.3	11 17	1 53.82	+ 4 22.2	1.733	2.617	11.9	20.4		
11 27	1 46.23	+12 33.1	1.547	2.418	13.8	20.6	11 27	1 48.65	+ 3 45.2	1.810	2.620	14.9	20.6		
175582	2006 TK ₉₄	10 27.8 179°23' 0°7/28.3 18						113731	2002 TO ₁₄₃	10 27.9 303°54' 5°7/23.2 18					
9 18	2 41.66	+15 42.4	1.744	2.533	17.0	20.9	9 18	2 33.32	+ 1 14.7	1.792	2.620	15.1	19.4		
9 28	2 36.98	+15 45.8	1.659	2.534	13.7	20.7	9 2								

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
99061	2001 <i>EB</i> ₂₆		10 27.9 306°03		0°9/27.2	18	455454	2003 <i>ST</i> ₃₃₄		10 27.9 6°52		2°3/29.4	17
9 18	2 33.45	+13 44.5	1.631	2.446	16.9	20.2	9 18	2 35.36	+18 38.5	1.829	2.618	16.3	20.9
9 28	2 30.80	+13 18.0	1.537	2.430	13.5	19.9	9 28	2 31.93	+19 6.2	1.747	2.619	13.3	20.7
10 8	2 25.47	+12 38.0	1.463	2.413	9.4	19.7	10 8	2 26.02	+19 22.3	1.686	2.621	9.6	20.5
10 18	2 17.95	+11 47.1	1.412	2.397	4.8	19.4	10 18	2 18.14	+19 26.2	1.648	2.623	5.6	20.2
10 28	2 9.17	+10 50.2	1.388	2.381	0.9	19.0	10 28	2 9.19	+19 19.0	1.636	2.626	2.3	20.0
11 7	2 0.32	+9 54.2	1.390	2.365	5.6	19.3	11 7	2 0.32	+19 3.9	1.652	2.630	4.5	20.2
11 17	1 52.62	+9 6.3	1.419	2.350	10.4	19.6	11 17	1 52.60	+18 45.5	1.696	2.634	8.4	20.4
11 27	1 47.10	+8 32.7	1.471	2.335	14.8	19.8	11 27	1 46.92	+18 29.1	1.764	2.639	12.1	20.7
319950	2007 <i>BJ</i> ₃₂		10 27.9 332°23		2°1/26.6	18	69035	2002 <i>XR</i> ₃₀		10 27.9 12°23		4°0/30.5	18
9 18	2 31.12	+11 26.0	1.177	2.025	20.1	21.0	9 18	2 39.82	+22 42.2	1.879	2.643	16.9	18.9
9 28	2 29.90	+11 0.4	1.097	2.009	16.1	20.7	9 28	2 35.56	+23 26.6	1.792	2.644	13.9	18.7
10 8	2 25.39	+10 20.5	1.034	1.993	11.2	20.4	10 8	2 28.61	+23 57.9	1.725	2.644	10.5	18.5
10 18	2 18.10	+9 30.1	0.992	1.979	5.7	20.0	10 18	2 19.50	+24 13.7	1.681	2.645	6.9	18.3
10 28	2 9.17	+8 36.2	0.973	1.965	2.3	19.8	10 28	2 9.18	+24 13.5	1.664	2.646	4.2	18.1
11 7	2 0.19	+7 48.1	0.978	1.953	7.4	20.0	11 7	1 58.85	+23 59.6	1.675	2.648	5.2	18.2
11 17	1 52.74	+7 14.2	1.006	1.942	13.1	20.3	11 17	1 49.73	+23 36.5	1.714	2.649	8.6	18.4
11 27	1 48.07	+7 0.8	1.054	1.933	18.1	20.6	11 27	1 42.80	+23 10.8	1.778	2.651	12.2	18.6
22474	Frobenius		10 27.9 244°93		1°0/28.6	18	41817	2000 <i>WX</i> ₄₀		10 27.9 332°87		6°2/23.9	18
9 18	2 37.50	+17 16.9	2.073	2.853	15.0	20.3	9 18	2 33.02	+4 17.2	1.200	2.052	19.5	17.5
9 28	2 33.40	+17 13.2	1.972	2.841	12.1	20.1	9 28	2 31.12	+3 8.6	1.129	2.043	15.6	17.3
10 8	2 26.95	+16 57.8	1.892	2.828	8.6	19.8	10 8	2 26.02	+1 51.4	1.077	2.034	11.1	17.0
10 18	2 18.60	+16 31.2	1.836	2.815	4.7	19.6	10 18	2 18.31	+0 34.1	1.047	2.027	7.2	16.8
10 28	2 9.17	+15 55.8	1.809	2.802	1.0	19.3	10 28	2 9.19	+0 32.3	1.040	2.019	6.7	16.7
11 7	1 59.69	+15 15.7	1.811	2.788	4.2	19.5	11 7	2 0.19	+1 17.8	1.057	2.013	10.3	16.9
11 17	1 51.18	+14 36.1	1.841	2.773	8.3	19.7	11 17	1 52.75	+1 36.0	1.096	2.007	14.9	17.1
11 27	1 44.53	+14 2.6	1.897	2.759	12.1	19.9	11 27	1 48.01	+1 24.8	1.155	2.002	19.2	17.4
57294	2001 <i>QC</i> ₁₇₉		10 27.9 5°42		5°1/24.4	18	102170	1999 <i>RA</i> ₂₃₀		10 27.9 8°44		2°8/26.6	18
9 18	2 33.21	+5 25.7	1.341	2.184	18.4	18.3	9 18	2 34.95	+8 16.0	1.026	1.882	21.8	18.1
9 28	2 30.79	+4 22.6	1.275	2.184	14.5	18.0	9 28	2 33.08	+8 13.2	0.967	1.882	17.3	17.8
10 8	2 25.47	+3 11.6	1.229	2.184	10.2	17.8	10 8	2 27.57	+8 2.3	0.924	1.885	12.0	17.5
10 18	2 17.90	+2 0.1	1.205	2.186	6.2	17.6	10 18	2 19.13	+7 47.5	0.902	1.888	6.2	17.2
10 28	2 9.18	+0 57.3	1.206	2.187	5.5	17.6	10 28	2 9.18	+7 34.8	0.902	1.893	2.9	17.1
11 7	2 0.69	+0 11.8	1.232	2.190	8.9	17.8	11 7	1 59.52	+7 30.9	0.925	1.900	7.7	17.4
11 17	1 53.68	+0 10.9	1.282	2.193	13.2	18.0	11 17	1 51.79	+7 40.7	0.970	1.908	13.3	17.7
11 27	1 49.09	+0 8.6	1.353	2.196	17.1	18.3	11 27	1 47.17	+8 7.1	1.036	1.917	18.1	18.0
204447	2004 <i>XP</i> ₁₂₂		10 27.9 323°89		1°1/28.6	18	315064	2007 <i>DS</i> ₃₂		10 27.9 285°60		4°1/24.0	18
9 18	2 33.19	+18 20.0	1.553	2.360	18.0	20.3	9 18	2 32.11	+4 18.6	2.134	2.952	13.4	20.6
9 28	2 30.74	+18 4.9	1.466	2.350	14.6	20.0	9 28	2 28.82	+3 18.0	2.051	2.945	10.6	20.4
10 8	2 25.49	+17 32.9	1.397	2.341	10.4	19.7	10 8	2 23.55	+2 12.3	1.990	2.939	7.5	20.2
10 18	2 17.97	+16 44.7	1.351	2.332	5.6	19.4	10 18	2 16.78	+1 6.6	1.956	2.932	4.7	20.0
10 28	2 9.19	+15 44.6	1.330	2.323	1.1	19.1	10 28	2 9.23	+0 6.9	1.949	2.926	4.4	20.0
11 7	2 0.42	+14 39.2	1.336	2.315	5.0	19.4	11 7	2 1.75	+0 41.1	1.971	2.919	6.9	20.1
11 17	1 52.94	+13 36.9	1.368	2.308	10.0	19.6	11 17	1 55.17	+1 13.1	2.019	2.913	10.0	20.3
11 27	1 47.76	+12 45.5	1.424	2.301	14.4	19.9	11 27	1 50.18	+1 26.8	2.092	2.906	13.0	20.5
113171	2002 <i>RG</i> ₁₀₂		10 27.9 32°57		0°1/27.9	18	348793	2006 <i>QH</i> ₃		10 27.9 42°04		3°8/30.3	18
9 18	2 32.45	+18 13.4	1.807	2.604	16.2	18.8	9 18	2 40.14	+22 1.1	1.467	2.254	19.8	20.2
9 28	2 29.51	+17 20.6	1.726	2.607	12.9	18.6	9 28	2 36.06	+22 37.6	1.413	2.279	16.1	20.0
10 8	2 24.22	+16 10.7	1.666	2.610	9.0	18.4	10 8	2 28.95	+22 56.6	1.377	2.305	11.9	19.8
10 18	2 17.15	+14 46.6	1.631	2.613	4.6	18.1	10 18	2 19.58	+22 56.8	1.362	2.332	7.4	19.6
10 28	2 9.20	+13 14.2	1.623	2.616	0.1	17.8	10 28	2 9.20	+22 39.3	1.374	2.359	4.0	19.5
11 7	2 1.43	+11 41.5	1.643	2.620	4.7	18.2	11 7	1 59.26	+22 9.1	1.411	2.387	5.4	19.7
11 17	1 54.83	+10 16.8	1.692	2.623	9.0	18.4	11 17	1 51.03	+21 32.8	1.475	2.415	9.3	20.0
11 27	1 50.17	+9 6.8	1.765	2.627	12.8	18.7	11 27	1 45.41	+20 58.3	1.563	2.443	13.1	20.3
226541	2003 <i>UJ</i> ₂₂₁		10 27.9 189°89		1°3/29.1	17	220828	2004 <i>TG</i> ₃₃₉		10 27.9 42°75		0°7/28.4	18
9 18	2 35.93	+18 1.0	2.557	3.324	12.8	20.9	9 18	2 34.82	+16 27.1	1.982	2.774	15.2	20.3
9 28	2 31.57	+18 10.7	2.463	3.323	10.3	20.7	9 28	2 31.13	+16 23.7	1.906	2.783	12.1	20.1
10 8	2 25.33	+18 11.3	2.392	3.323	7.4	20.5	10 8	2 25.22	+16 9.1	1.851	2.792	8.5	20.0
10 18	2 17.65	+18 3.0	2.346	3.322	4.1	20.3	10 18	2 17.64	+15 44.6	1.821	2.801	4.5	19.7
10 28	2 9.20	+17 47.1	2.330	3.321	1.4	20.1	10 28	2 9.23	+15 13.1	1.818	2.811	0.8	19.5
11 7	2 0.78	+17 26.4	2.343	3.320	3.4	20.3	11 7	2 0.98	+14 38.9	1.843	2.821	4.1	19.8
11 17	1 53.18	+17 4.3	2.387	3.319	6.7	20.5	11 17	1 53.83	+14 6.9	1.897	2.831	8.0	20.0
11 27	1 47.07	+16 44.8	2.457	3.318	9.7	20.7	11 27	1 48.52	+13 41.7	1.976	2.842	11.5	20.3
327107	2005 <i>AA</i> ₆₉		10 27.9 230°15		4°7/23.2	18	234101	1999 <i>UK</i> ₃₇		10 27.9 79°98		2°0/26.2	18
9 18	2 32.97	+0 48.5	2.540	3.349	11.7	20.7	9 18	2 35.76	+11 51.5	1.719	2.530	16.4	20.8
9 28	2 29.09	+1 36.1	2.459	3.345	9.3	20.5	9 28	2 31.99	+10 54.3	1.656	2.547	12.8	20.6
10 8	2 23.52	+2 23.8	2.402	3.341	6.9	20.3	10 8	2 25.82	+9 46.0	1.614	2.564	8.7	20.4
10 18	2 16.69	+3 7.5	2.371	3.337	5.0	20.2	10 18	2 17.92	+8 31.2	1.597	2.581	4.4	20.2
10 28	2 9.21	+3 42.3	2.369	3.333	4.9	20.2	10 28	2 9.24	+7 16.9	1.608	2.598	2.2	20.1
11 7	2 1.82	+4 4.4	2.395	3.328	6.8	20.3	11 7	2 0.89	+6 10.2	1.647	2.615	5.8	20.3
11 17	1 55.20	+4 11.4	2.449	3.323	9.3	20.5	11 17	1 53.84	+5 17.2	1.713	2.632	9.9	20.6
11 27	1 49.95	+4 2.4	2.527	3.319	11.7	20.6	11 27	1 48.83	+4 42.0	1.803	2.649	13.4	20.9
258589	2002 <i>CG</i> ₁₈₄		10 27.9 89°58		5°1/23.2	18	140990	2001 <i>WP</i> ₁₉					

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
203964	2003 SA ₁₃₃	10 27.9 353°16		0°6/27.5 18			397968	2008 YQ ₁₆₈	10 27.9 303°24		0°2/27.7 18		
9 18	2 33.62	+14 18.8	1.562	2.378	17.5	20.4	9 18	2 34.06	+14 58.1	1.642	2.453	17.0	21.5
9 28	2 30.89	+13 55.1	1.483	2.375	13.9	20.1	9 28	2 31.33	+14 39.0	1.547	2.435	13.7	21.3
10 8	2 25.47	+13 17.9	1.423	2.373	9.7	19.9	10 8	2 25.90	+14 6.1	1.470	2.418	9.6	21.0
10 18	2 17.92	+12 29.9	1.387	2.371	4.9	19.6	10 18	2 18.25	+13 21.2	1.418	2.401	4.9	20.7
10 28	2 9.24	+11 36.1	1.377	2.370	0.6	19.3	10 28	2 9.28	+12 28.5	1.391	2.385	0.3	20.3
11 7	2 0.69	+10 43.6	1.393	2.369	5.4	19.6	11 7	2 0.24	+11 34.5	1.391	2.368	5.3	20.6
11 17	1 53.42	+9 59.0	1.436	2.369	10.1	19.9	11 17	1 52.34	+10 46.3	1.418	2.352	10.2	20.9
11 27	1 48.40	+9 28.2	1.502	2.369	14.3	20.2	11 27	1 46.62	+10 10.6	1.468	2.336	14.6	21.1
343725	2011 EN ₇₂	10 27.9 56°29		3°5/30.1 18			411137	2009 WA ₂₃₂	10 27.9 116°03		3°3/24.9 18		
9 18	2 39.75	+21 44.7	1.475	2.262	19.7	20.3	9 18	2 34.86	+3 27.2	2.482	3.286	12.1	20.9
9 28	2 35.96	+22 11.1	1.407	2.275	16.1	20.1	9 28	2 30.56	+2 58.7	2.407	3.293	9.5	20.7
10 8	2 29.07	+22 20.3	1.357	2.287	11.9	19.9	10 8	2 24.54	+2 28.2	2.354	3.299	6.7	20.6
10 18	2 19.75	+22 10.7	1.329	2.300	7.3	19.7	10 18	2 17.23	+1 59.3	2.329	3.306	4.1	20.4
10 28	2 9.23	+21 43.7	1.326	2.313	3.7	19.5	10 28	2 9.31	+1 35.6	2.333	3.312	3.4	20.4
11 7	1 58.98	+21 4.3	1.350	2.327	5.4	19.6	11 7	2 1.53	+1 20.6	2.365	3.318	5.6	20.5
11 17	1 50.35	+20 19.8	1.400	2.340	9.7	19.9	11 17	1 54.59	+1 16.8	2.427	3.324	8.4	20.7
11 27	1 44.36	+19 38.5	1.474	2.354	13.7	20.2	11 27	1 49.09	+1 25.5	2.513	3.330	11.0	20.9
442468	2011 UK ₂₉₆	10 27.9 52°94		1°3/27.1 18			72581	2001 EE ₂₂	10 27.9 231°60		0°1/27.8 18		
9 18	2 39.70	+10 8.7	1.631	2.441	17.1	20.7	9 18	2 35.57	+15 36.8	2.021	2.811	14.9	20.3
9 28	2 35.24	+10 9.1	1.570	2.460	13.5	20.5	9 28	2 31.83	+15 9.2	1.927	2.805	11.9	20.1
10 8	2 28.16	+10 2.3	1.530	2.479	9.2	20.3	10 8	2 25.83	+14 29.1	1.855	2.797	8.3	19.9
10 18	2 19.14	+9 50.7	1.514	2.498	4.6	20.1	10 18	2 18.05	+13 38.6	1.808	2.790	4.3	19.6
10 28	2 9.25	+9 38.1	1.525	2.518	1.4	19.9	10 28	2 9.31	+12 41.7	1.789	2.782	0.2	19.2
11 7	1 59.70	+9 28.7	1.564	2.538	5.4	20.2	11 7	2 0.61	+11 43.7	1.799	2.774	4.5	19.6
11 17	1 51.59	+9 26.3	1.630	2.558	9.6	20.5	11 17	1 52.91	+10 50.9	1.837	2.766	8.6	19.8
11 27	1 45.74	+9 33.9	1.720	2.578	13.3	20.8	11 27	1 47.05	+10 8.6	1.901	2.757	12.3	20.0
352403	2007 XU ₁₄	10 27.9 222°78		0°4/27.5 18			144838	2004 JM ₃₀	10 27.9 92°93		2°2/26.3 18		
9 18	2 36.24	+13 37.9	2.304	3.090	13.5	22.0	9 18	2 39.85	+10 9.8	1.679	2.487	16.8	20.1
9 28	2 32.03	+13 19.6	2.206	3.082	10.7	21.8	9 28	2 35.22	+9 32.4	1.619	2.508	13.2	19.9
10 8	2 25.79	+12 52.3	2.132	3.074	7.4	21.6	10 8	2 28.07	+8 46.3	1.580	2.529	9.0	19.7
10 18	2 17.96	+12 17.6	2.083	3.065	3.8	21.4	10 18	2 19.08	+7 55.5	1.566	2.549	4.6	19.5
10 28	2 9.26	+11 38.8	2.063	3.056	0.5	21.1	10 28	2 9.30	+7 5.9	1.579	2.570	2.3	19.4
11 7	2 0.58	+11 0.1	2.073	3.047	4.2	21.4	11 7	1 59.90	+6 23.6	1.621	2.589	5.9	19.7
11 17	1 52.78	+10 25.9	2.112	3.037	7.9	21.6	11 17	1 51.92	+5 53.4	1.690	2.609	10.0	20.0
11 27	1 46.59	+10 0.4	2.177	3.027	11.2	21.8	11 27	1 46.12	+5 38.7	1.783	2.627	13.5	20.2
516153	2015 XN ₃₉₆	10 27.9 48°57		4°3/24.6 18			226567	2003 WG ₁₀₇	10 27.9 20°79		8°1/21.9 18		
9 18	2 36.19	+1 17.2	2.093	2.905	13.8	21.0	9 18	2 34.54	-7 48.8	1.855	2.677	14.9	19.1
9 28	2 31.95	+0 50.1	2.021	2.911	10.9	20.8	9 28	2 30.87	-8 43.3	1.798	2.684	12.3	19.0
10 8	2 25.65	+0 22.4	1.972	2.916	7.8	20.7	10 8	2 25.01	-9 31.6	1.763	2.691	9.8	18.8
10 18	2 17.83	-0 1.6	1.948	2.922	5.0	20.5	10 18	2 17.53	-10 6.8	1.752	2.698	8.2	18.7
10 28	2 9.27	-0 17.3	1.952	2.927	4.5	20.5	10 28	2 9.32	-10 22.8	1.766	2.707	8.4	18.8
11 7	2 0.88	-0 21.2	1.984	2.933	6.8	20.6	11 7	2 1.37	-10 16.1	1.806	2.715	10.2	18.9
11 17	1 53.51	-0 11.1	2.043	2.939	9.8	20.8	11 17	1 54.58	-9 45.9	1.870	2.725	12.6	19.1
11 27	1 47.85	+0 13.8	2.127	2.945	12.7	21.0	11 27	1 49.64	-8 53.9	1.956	2.735	15.1	19.3
10296	Rominadisisto	10 27.9 307°80		0°6/28.5 18			72539	2001 DW ₁₀₃	10 27.9 13°27		2°6/26.1 18		
9 18	2 30.81	+16 28.5	2.849	3.626	11.4	18.6	9 18	2 35.11	+9 12.2	1.591	2.414	16.9	19.4
9 28	2 27.45	+16 22.7	2.740	3.608	9.1	18.4	9 28	2 31.90	+8 39.0	1.518	2.415	13.4	19.2
10 8	2 22.47	+16 8.5	2.653	3.590	6.5	18.2	10 8	2 26.07	+7 56.8	1.464	2.417	9.2	19.0
10 18	2 16.24	+15 46.9	2.593	3.572	3.5	18.0	10 18	2 18.21	+7 10.1	1.434	2.419	4.8	18.7
10 28	2 9.29	+15 19.8	2.561	3.554	0.6	17.7	10 28	2 9.31	+6 24.7	1.431	2.421	2.7	18.6
11 7	2 2.30	+14 50.0	2.560	3.537	3.2	17.9	11 7	2 0.59	+5 47.1	1.455	2.423	6.4	18.8
11 17	1 55.93	+14 20.9	2.587	3.519	6.3	18.1	11 17	1 53.15	+5 22.6	1.504	2.426	10.7	19.1
11 27	1 50.78	+13 56.0	2.642	3.502	9.1	18.2	11 27	1 47.89	+5 14.7	1.577	2.429	14.6	19.3
312757	2010 TP ₁₀₉	10 27.9 65°59		1°8/26.4 18			348092	2003 WO ₁₅₈	10 27.9 308°25		0°3/28.1 18		
9 18	2 34.75	+10 5.0	2.008	2.814	14.5	21.1	9 18	2 35.73	+15 10.9	1.702	2.506	16.8	20.8
9 28	2 30.99	+9 37.1	1.931	2.819	11.4	20.9	9 28	2 32.50	+15 7.4	1.611	2.496	13.5	20.6
10 8	2 25.10	+9 1.5	1.875	2.824	7.8	20.7	10 8	2 26.61	+14 52.1	1.541	2.486	9.5	20.3
10 18	2 17.59	+8 21.5	1.846	2.829	4.0	20.5	10 18	2 18.58	+14 26.0	1.494	2.476	5.0	20.1
10 28	2 9.28	+7 41.5	1.844	2.835	1.9	20.3	10 28	2 9.32	+13 52.3	1.473	2.467	0.3	19.7
11 7	2 1.12	+7 6.5	1.871	2.840	5.1	20.6	11 7	2 0.04	+13 16.2	1.480	2.457	4.9	20.0
11 17	1 54.01	+6 40.8	1.925	2.845	8.9	20.8	11 17	1 51.93	+12 43.5	1.513	2.448	9.6	20.3
11 27	1 48.67	+6 27.5	2.005	2.851	12.2	21.0	11 27	1 45.98	+12 20.0	1.571	2.440	13.7	20.5
368456	2003 QH ₁₁₂	10 27.9 81°25		3°3/25.8 17			331103	2009 WT ₂₅₅	10 27.9 235°27		3°7/24.5 18		
9 18	2 40.41	+8 50.7	1.356	2.181	19.2	21.5	9 18	2 34.09	+1 59.8	2.523	3.329	11.9	20.9
9 28	2 36.20	+8 2.3	1.302	2.201	15.1	21.3	9 28	2 30.02	+1 28.1	2.440	3.326	9.4	20.8
10 8	2 29.00	+7 4.6	1.268	2.221	10.3	21.1	10 8	2 24.21	+0 55.1	2.379	3.323	6.7	20.6
10 18	2 19.60	+6 3.2	1.257	2.240	5.5	20.9	10 18	2 17.11	+0 24.3	2.345	3.319	4.3	20.4
10 28	2 9.26	+5 6.1	1.272	2.260	3.5	20.8	10 28	2 9.34	-0 0.2	2.340	3.316	3.9	20.4
11 7	1 59.41	+4 20.9	1.313	2.279	7.3	21.1	11 7	2 1.65	-0 14.9	2.364	3.312	5.9	20.5
11 17	1 51.29	+3 53.1	1.379	2.298	11.8	21.4	11 17	1 54.73	-0 17.3	2.417	3.308	8.7	20.7
11 27	1 45.75	+3 45.4	1.468	2.316	15.7	21.7	11 27	1 49.22	-0 6.2	2.494	3.305	11.2	20.9
365953	2012 BK ₉	10 27.9 106°81		4°1/23.7 18			363694	2004 TT ₂₀₇	10 27.9 41°85		0°4/28.3 18		
9 18	2 32.48	+3 21.6	2.329	3.142	12.5	21.5	9 18	2 32.27	+17 45.9	1.956	2.749	15.3	20.4
9 28	2 28.80	+2 16.6											

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
63344	2001 FX ₈₆		10 27.9 72°86	1.4°/27.0	18		335005	2004 HJ ₄		10 27.9 235°09	1.3°/26.9	18	
9 18	2 42.58	+ 9 12.0	1.771	2.572	16.4	18.7	9 18	2 39.62	+11 21.6	1.840	2.640	15.9	21.5
9 28	2 37.27	+ 9 17.7	1.710	2.593	12.9	18.5	9 28	2 35.33	+11 3.1	1.745	2.629	12.7	21.3
10 8	2 29.45	+ 9 17.7	1.669	2.615	8.8	18.3	10 8	2 28.46	+10 35.3	1.671	2.617	8.8	21.0
10 18	2 19.79	+ 9 14.2	1.653	2.636	4.4	18.1	10 18	2 19.50	+10 0.5	1.622	2.605	4.5	20.7
10 28	2 9.32	+ 9 10.2	1.666	2.658	1.5	17.9	10 28	2 9.35	+ 9 23.0	1.600	2.593	1.4	20.5
11 7	2 1 59.19	+ 9 9.2	1.707	2.679	5.2	18.2	11 7	2 1 59.16	+ 8 48.0	1.608	2.579	5.4	20.7
11 17	1 50.46	+ 9 14.4	1.776	2.700	9.2	18.5	11 17	1 50.08	+ 8 20.8	1.642	2.566	9.9	21.0
11 27	1 43.91	+ 9 28.2	1.871	2.721	12.7	18.8	11 27	1 43.07	+ 8 5.9	1.702	2.552	13.8	21.2
486176	2013 AB ₉		10 27.9 334°01	6°8/23.2	18		287913	2003 TE ₃₇		10 27.9 62°42	1°8/29.5	16	
9 18	2 37.34	- 3 11.6	1.764	2.586	15.6	21.1	9 18	2 34.67	+23 7.6	1.648	2.431	18.1	21.0
9 28	2 33.34	- 3 59.2	1.693	2.584	12.6	21.0	9 28	2 31.47	+22 20.6	1.579	2.446	14.7	20.8
10 8	2 26.89	- 4 44.7	1.643	2.582	9.5	20.8	10 8	2 25.66	+21 12.0	1.529	2.462	10.5	20.5
10 18	2 18.58	- 5 21.6	1.617	2.580	7.2	20.6	10 18	2 17.94	+19 43.8	1.503	2.478	6.0	20.3
10 28	2 9.33	- 5 43.3	1.617	2.578	7.1	20.6	10 28	2 9.37	+18 2.0	1.503	2.495	2.0	20.1
11 7	2 0.25	- 5 45.1	1.644	2.576	9.4	20.8	11 7	2 1.14	+16 15.6	1.532	2.511	4.5	20.3
11 17	1 52.37	- 5 25.0	1.696	2.575	12.5	20.9	11 17	1 54.32	+14 34.1	1.589	2.528	8.9	20.6
11 27	1 46.51	- 4 43.6	1.771	2.574	15.4	21.1	11 27	1 49.70	+13 6.3	1.671	2.544	12.8	20.9
374785	2006 TS ₂₈		10 27.9 238°31	0°7/27.4	17		482334	2011 UE ₃₄₃		10 27.9 293°09	1°4/26.9	17	
9 18	2 35.85	+15 39.9	1.576	2.384	17.7	21.2	9 18	2 37.40	+ 9 54.5	1.890	2.695	15.3	21.4
9 28	2 32.69	+14 55.5	1.492	2.380	14.2	21.0	9 28	2 33.51	+ 9 51.1	1.794	2.681	12.2	21.1
10 8	2 26.76	+13 54.5	1.428	2.375	9.9	20.7	10 8	2 27.17	+ 9 41.2	1.720	2.667	8.5	20.9
10 18	2 18.63	+12 39.8	1.387	2.371	5.0	20.4	10 18	2 18.84	+ 9 26.8	1.670	2.654	4.3	20.6
10 28	2 9.33	+11 17.6	1.373	2.366	0.8	20.1	10 28	2 9.36	+ 9 11.2	1.648	2.640	1.5	20.4
11 7	2 0.14	+ 9 56.6	1.387	2.361	5.6	20.4	11 7	2 1 59.82	+ 8 58.7	1.654	2.627	5.3	20.6
11 17	1 52.26	+ 8 45.3	1.426	2.357	10.5	20.7	11 17	1 51.30	+ 8 53.1	1.688	2.613	9.5	20.9
11 27	1 46.69	+ 7 50.9	1.490	2.351	14.8	20.9	11 27	1 44.74	+ 8 57.9	1.746	2.600	13.3	21.1
246407	2007 UE ₁₀₁		10 27.9 36°02	3°4/30.8	18		184308	2005 EY ₂₀₉		10 27.9 127°15	0°2/27.7	18	
9 18	2 32.67	+26 11.9	1.464	2.248	19.9	19.6	9 18	2 35.70	+15 4.0	1.916	2.711	15.5	20.7
9 28	2 30.30	+25 41.3	1.399	2.264	16.4	19.4	9 28	2 31.97	+14 40.6	1.834	2.714	12.3	20.5
10 8	2 25.06	+24 45.3	1.352	2.280	12.2	19.2	10 8	2 25.93	+14 5.4	1.773	2.717	8.6	20.3
10 18	2 17.68	+23 24.7	1.327	2.297	7.5	19.0	10 18	2 18.11	+13 20.4	1.737	2.720	4.3	20.1
10 28	2 9.34	+21 44.7	1.327	2.314	3.7	18.8	10 28	2 9.38	+12 29.9	1.729	2.722	0.2	19.7
11 7	2 1.39	+19 54.8	1.354	2.333	5.0	18.9	11 7	2 0.78	+11 39.4	1.749	2.725	4.5	20.1
11 17	1 54.98	+18 6.1	1.407	2.352	9.3	19.2	11 17	1 53.30	+10 54.5	1.797	2.727	8.7	20.3
11 27	1 50.98	+16 29.2	1.485	2.371	13.3	19.5	11 27	1 47.73	+10 20.3	1.871	2.730	12.3	20.6
381413	2008 JM ₃₂		10 27.9 24°19	2°5/26.7	18		517068	2013 CU ₄₇		10 27.9 227°06	1°5/26.7	18	
9 18	2 38.52	+ 7 46.4	1.148	1.990	20.9	19.6	9 18	2 35.87	+10 41.3	2.084	2.885	14.2	21.7
9 28	2 35.45	+ 7 50.1	1.091	1.999	16.5	19.4	9 28	2 31.92	+10 18.8	1.996	2.881	11.3	21.5
10 8	2 28.95	+ 7 47.5	1.052	2.009	11.4	19.1	10 8	2 25.81	+ 9 48.5	1.931	2.877	7.8	21.3
10 18	2 19.78	+ 7 42.2	1.034	2.020	5.9	18.9	10 18	2 18.04	+ 9 13.0	1.890	2.874	3.9	21.0
10 28	2 9.32	+ 7 39.0	1.040	2.032	2.7	18.7	10 28	2 9.38	+ 8 36.3	1.878	2.870	1.6	20.9
11 7	2 1 59.25	+ 7 43.3	1.071	2.045	7.2	19.0	11 7	2 0.79	+ 8 3.1	1.895	2.866	4.9	21.1
11 17	1 51.04	+ 7 58.7	1.125	2.058	12.3	19.4	11 17	1 53.17	+ 7 37.8	1.940	2.861	8.7	21.3
11 27	1 45.77	+ 8 27.7	1.201	2.073	16.8	19.7	11 27	1 47.30	+ 7 23.9	2.010	2.857	12.1	21.5
322693	1999 WR ₂₇		10 27.9 348°01	0°5/27.5	17		23710	1997 UJ		10 27.9 328°56	0°4/28.6	18	
9 18	2 32.13	+14 24.2	1.954	2.757	14.9	21.6	9 18	2 26.08	+17 29.9	4.153	4.918	8.3	19.3
9 28	2 29.15	+13 57.8	1.868	2.754	11.9	21.4	9 28	2 23.14	+17 6.6	4.054	4.915	6.6	19.2
10 8	2 23.98	+13 20.1	1.804	2.751	8.2	21.2	10 8	2 19.19	+16 36.5	3.979	4.912	4.6	19.1
10 18	2 17.11	+12 33.3	1.765	2.748	4.1	20.9	10 18	2 14.49	+16 0.9	3.931	4.910	2.5	18.9
10 28	2 9.36	+11 41.8	1.752	2.746	0.5	20.6	10 28	2 9.42	+15 21.5	3.914	4.907	0.5	18.7
11 7	2 1.69	+10 51.1	1.769	2.744	4.6	20.9	11 7	2 4.39	+14 40.7	3.928	4.904	2.2	18.9
11 17	1 55.03	+10 6.7	1.812	2.742	8.6	21.2	11 17	1 59.78	+14 0.8	3.972	4.902	4.4	19.0
11 27	1 50.15	+ 9 33.4	1.881	2.741	12.2	21.4	11 27	1 55.97	+13 24.5	4.044	4.899	6.3	19.2
206492	2003 UW ₈₀		10 27.9 25°80	7°9/24.4	18		173243	1999 JC ₉₀		10 27.9 147°85	4°0/25.1	18	
9 18	2 40.79	- 5 4.6	1.366	2.198	18.7	19.0	9 18	2 40.65	+ 5 48.5	1.670	2.484	16.7	20.8
9 28	2 36.55	- 5 28.2	1.312	2.208	15.2	18.8	9 28	2 36.03	+ 4 59.2	1.600	2.492	13.1	20.6
10 8	2 29.30	- 5 44.9	1.277	2.218	11.5	18.7	10 8	2 28.79	+ 4 3.8	1.551	2.500	9.2	20.4
10 18	2 19.82	- 5 47.8	1.265	2.229	8.6	18.5	10 18	2 19.56	+ 3 7.7	1.527	2.507	5.3	20.2
10 28	2 9.33	- 5 30.8	1.277	2.241	8.1	18.6	10 28	2 9.37	+ 2 17.6	1.531	2.514	4.3	20.1
11 7	2 1 59.28	- 4 50.9	1.314	2.254	10.5	18.7	11 7	2 1 59.44	+ 1 40.0	1.562	2.519	7.4	20.3
11 17	1 50.91	- 3 48.9	1.375	2.267	13.9	19.0	11 17	1 50.87	+ 1 19.4	1.619	2.525	11.3	20.6
11 27	1 45.12	- 2 27.8	1.458	2.281	17.1	19.2	11 27	1 44.52	+ 1 17.9	1.701	2.529	14.8	20.8
227709	2006 DB ₁₁₀		10 27.9 331°71	3°5/30.4	17		405283	2003 SW ₄₀₄		10 27.9 330°02	4°1/25.5	17	
9 18	2 36.13	+22 10.2	2.018	2.786	15.7	20.5	9 18	2 35.11	+ 3 3.3	1.686	2.513	15.9	20.4
9 28	2 32.54	+22 45.4	1.922	2.777	13.0	20.3	9 28	2 32.10	+ 2 55.8	1.587	2.485	12.8	20.1
10 8	2 26.52	+23 8.2	1.846	2.768	9.8	20.1	10 8	2 26.45	+ 2 47.0	1.508	2.459	9.2	19.9
10 18	2 18.51	+23 17.1	1.794	2.760	6.3	19.9	10 18	2 18.59	+ 2 40.9	1.453	2.433	5.5	19.6
10 28	2 9.36	+23 11.9	1.768	2.752	3.6	19.7	10 28	2 9.38	+ 2 42.3	1.424	2.408	4.3	19.5
11 7	2 0.12	+22 55.1	1.771	2.745	4.8	19.7	11 7	2 1 59.98	+ 2 55.7	1.422	2.384	7.4	19.6
11 17	1 51.90	+22 30.8	1.801	2.738	8.2	19.9	11 17	1 51.60	+ 3 23.9	1.445	2.361	11.6	19.8
11 27	1 45.61	+22 4.9	1.857	2.731	11.6	20.1	11 27	1 45.31	+ 4 8.3	1.491	2.339	15.5	20.0
476833	2008 UU ₂₈₁		10 27.9 149°79	3°9/25.4	18		254846	Csontváry		10 27.9 317°11	1°9/29.4	18	
9 18	2 41.69	+ 2 35.9	1.959										

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
372352	2009 <i>FA</i> ₇₁	10 27.9 111°41'		1.6°/26.7 13 C			97024	1999 <i>TS</i> ₂₈₃	10 27.9 290°57'		3.1°/25.3 18		
9 18	2 39.75	+13 4.8	1.558	2.365	17.9	22.5	9 18	2 32.79	+ 9 46.2	1.748	2.568	15.8	19.3
9 28	2 35.47	+12 16.0	1.493	2.381	14.1	22.3	9 28	2 30.02	+ 8 41.9	1.657	2.554	12.5	19.1
10 8	2 28.45	+11 13.9	1.448	2.396	9.7	22.0	10 8	2 24.81	+ 7 25.5	1.587	2.540	8.6	18.8
10 18	2 19.38	+10 3.1	1.427	2.411	4.8	21.8	10 18	2 17.67	+ 6 1.9	1.542	2.526	4.7	18.6
10 28	2 9.39	+ 8 50.2	1.434	2.426	1.7	21.6	10 28	2 9.44	+ 4 38.6	1.524	2.511	3.3	18.4
11 7	1 59.75	+ 7 43.4	1.469	2.440	5.9	21.9	11 7	2 1.22	+ 3 23.7	1.534	2.497	6.8	18.6
11 17	1 51.63	+ 6 49.5	1.530	2.453	10.5	22.2	11 17	1 54.07	+ 2 24.5	1.570	2.483	11.0	18.8
11 27	1 45.85	+ 6 13.5	1.615	2.466	14.4	22.5	11 27	1 48.88	+ 1 46.0	1.630	2.469	14.8	19.1
51429	2001 <i>FU</i> ₅	10 27.9 130°91'		2.7°/30.1 18			209185	2003 <i>UH</i> ₁₈₆	10 27.9 336°97'		2.2°/29.7 18		
9 18	2 40.93	+21 34.7	2.213	2.966	14.9	18.7	9 18	2 32.55	+22 19.6	1.632	2.423	17.9	19.8
9 28	2 35.84	+21 56.9	2.130	2.977	12.2	18.5	9 28	2 30.14	+21 55.9	1.546	2.417	14.7	19.6
10 8	2 28.49	+22 6.8	2.068	2.988	9.0	18.4	10 8	2 25.05	+21 11.7	1.478	2.412	10.7	19.3
10 18	2 19.38	+22 3.6	2.031	2.998	5.5	18.2	10 18	2 17.82	+20 7.4	1.432	2.408	6.3	19.1
10 28	2 9.39	+21 48.0	2.022	3.008	2.9	18.0	10 28	2 9.45	+18 47.0	1.413	2.403	2.3	18.8
11 7	1 59.52	+21 23.1	2.043	3.017	4.2	18.1	11 7	2 1.17	+17 18.0	1.420	2.400	4.7	19.0
11 17	1 50.73	+20 53.1	2.093	3.026	7.4	18.3	11 17	1 54.15	+15 49.6	1.455	2.396	9.3	19.2
11 27	1 43.83	+20 23.6	2.170	3.035	10.6	18.6	11 27	1 49.36	+14 31.0	1.514	2.393	13.5	19.5
141509	2002 <i>ET</i> ₈₄	10 27.9 100°17'		0.1°/27.8 17			140426	2001 <i>TU</i> ₉₃	10 27.9 53°49'		2.0°/29.5 18		
9 18	2 42.63	+14 24.8	1.514	2.315	18.6	20.4	9 18	2 36.15	+20 11.0	1.779	2.563	16.9	20.1
9 28	2 37.89	+14 16.0	1.450	2.333	14.8	20.2	9 28	2 32.50	+20 9.5	1.709	2.578	13.7	19.9
10 8	2 30.21	+13 54.7	1.405	2.350	10.3	20.0	10 8	2 26.37	+19 52.9	1.658	2.592	9.8	19.7
10 18	2 20.31	+13 23.1	1.384	2.366	5.2	19.7	10 18	2 18.36	+19 21.8	1.631	2.607	5.6	19.5
10 28	2 9.38	+12 45.4	1.389	2.383	0.2	19.3	10 28	2 9.45	+18 39.0	1.631	2.622	2.1	19.3
11 7	1 58.83	+12 7.5	1.422	2.398	5.3	19.8	11 7	2 0.79	+17 49.8	1.659	2.637	4.4	19.5
11 17	1 49.89	+11 35.7	1.482	2.414	10.0	20.1	11 17	1 53.41	+17 0.5	1.714	2.652	8.4	19.8
11 27	1 43.48	+11 15.2	1.566	2.429	14.1	20.4	11 27	1 48.13	+16 17.4	1.794	2.668	12.0	20.0
338008	2002 <i>EU</i> ₁₁₄	10 27.9 119°36'		1.7°/29.2 18			56157	1999 <i>CG</i> ₁₃₅	10 27.9 309°17'		1.4°/28.8 18		
9 18	2 40.80	+18 48.6	2.028	2.798	15.6	21.1	9 18	2 35.01	+17 57.9	1.474	2.282	18.7	18.4
9 28	2 35.83	+18 56.2	1.951	2.812	12.6	20.9	9 28	2 32.54	+17 58.6	1.381	2.266	15.3	18.1
10 8	2 28.50	+18 51.7	1.895	2.826	9.0	20.8	10 8	2 27.05	+17 43.3	1.307	2.250	11.0	17.8
10 18	2 19.38	+18 35.2	1.865	2.840	5.1	20.5	10 18	2 19.01	+17 12.2	1.255	2.235	6.1	17.5
10 28	2 9.40	+18 8.7	1.862	2.853	1.8	20.3	10 28	2 9.45	+16 27.9	1.227	2.220	1.5	17.2
11 7	1 59.61	+17 36.2	1.889	2.866	4.1	20.5	11 7	1 59.76	+15 36.5	1.226	2.205	5.3	17.4
11 17	1 51.02	+17 2.6	1.945	2.878	7.9	20.8	11 17	1 51.38	+14 46.0	1.250	2.191	10.5	17.7
11 27	1 44.41	+16 33.2	2.027	2.890	11.3	21.0	11 27	1 45.50	+14 4.3	1.297	2.177	15.3	17.9
22273	1981 <i>QO</i> ₃	10 27.9 55°42'		2.0°/26.7 18			514187	2015 <i>ML</i> ₈₁	10 27.9 157°24'		2.2°/29.8 18		
9 18	2 38.79	+11 24.9	1.256	2.086	20.2	18.7	9 18	2 36.91	+21 52.0	1.985	2.754	15.9	22.2
9 28	2 35.25	+10 54.5	1.203	2.104	15.9	18.5	9 28	2 32.97	+21 39.8	1.899	2.757	13.0	22.0
10 8	2 28.55	+10 12.2	1.169	2.122	10.9	18.3	10 8	2 26.66	+21 11.5	1.833	2.760	9.5	21.7
10 18	2 19.49	+ 9 22.4	1.156	2.141	5.4	18.0	10 18	2 18.53	+20 27.5	1.791	2.763	5.6	21.5
10 28	2 9.40	+ 8 32.4	1.169	2.161	2.1	17.9	10 28	2 9.46	+19 30.6	1.777	2.766	2.3	21.3
11 7	1 59.79	+ 7 49.7	1.207	2.180	6.6	18.2	11 7	2 0.51	+18 26.0	1.791	2.769	4.2	21.5
11 17	1 51.98	+ 7 20.7	1.270	2.200	11.5	18.5	11 17	1 52.71	+17 20.3	1.834	2.771	8.1	21.7
11 27	1 46.88	+ 7 9.4	1.355	2.220	15.8	18.9	11 27	1 46.86	+16 20.4	1.903	2.773	11.7	21.9
514776	2007 <i>FU</i> ₈₅	10 27.9 264°36'		0.6°/27.5 18			223967	2004 <i>XF</i> ₁₁₀	10 27.9 322°79'		4.4°/31.7 17		
9 18	2 36.73	+14 19.1	1.710	2.514	16.7	22.6	9 18	2 34.00	+26 45.5	2.105	2.854	15.7	20.0
9 28	2 33.32	+13 54.3	1.615	2.500	13.4	22.3	9 28	2 30.82	+27 4.8	2.007	2.845	13.2	19.8
10 8	2 27.23	+13 16.4	1.540	2.486	9.4	22.0	10 8	2 25.31	+27 7.8	1.928	2.837	10.2	19.5
10 18	2 18.95	+12 27.2	1.488	2.472	4.8	21.7	10 18	2 17.92	+26 52.9	1.873	2.828	7.1	19.3
10 28	2 9.40	+11 31.4	1.464	2.457	0.6	21.4	10 28	2 9.47	+26 20.3	1.844	2.820	4.6	19.2
11 7	1 59.81	+10 35.6	1.467	2.443	5.3	21.7	11 7	2 0.99	+25 33.2	1.842	2.812	5.1	19.2
11 17	1 51.36	+ 9 46.5	1.498	2.428	10.1	22.0	11 17	1 53.50	+24 36.9	1.868	2.805	7.9	19.4
11 27	1 45.08	+ 9 10.5	1.552	2.413	14.3	22.2	11 27	1 47.89	+23 38.5	1.920	2.798	11.2	19.5
480973	2003 <i>UH</i> ₃₆₆	10 27.9 355°45'		1.0°/28.6 18			430791	2004 <i>TY</i> ₂₉₅	10 27.9 27°41'		0.8°/28.4 17		
9 18	2 30.94	+17 25.3	1.330	2.155	19.5	20.6	9 18	2 35.25	+16 8.6	0.931	1.780	24.1	20.7
9 28	2 29.36	+17 18.2	1.255	2.150	15.7	20.3	9 28	2 33.63	+16 13.2	0.882	1.792	19.3	20.5
10 8	2 24.78	+16 53.8	1.197	2.146	11.2	20.0	10 8	2 28.09	+15 58.6	0.849	1.805	13.5	20.2
10 18	2 17.76	+16 13.4	1.160	2.143	6.0	19.7	10 18	2 19.49	+15 26.7	0.835	1.820	7.1	19.9
10 28	2 9.42	+15 21.4	1.148	2.141	1.0	19.4	10 28	2 9.45	+14 43.2	0.842	1.835	0.9	19.6
11 7	2 1.17	+14 25.2	1.161	2.141	5.4	19.7	11 7	1 59.94	+13 57.5	0.872	1.853	6.4	20.0
11 17	1 54.38	+13 33.3	1.198	2.141	10.6	20.0	11 17	1 52.62	+13 18.9	0.924	1.871	12.4	20.4
11 27	1 50.11	+12 53.4	1.257	2.143	15.2	20.3	11 27	1 48.63	+12 55.2	0.996	1.890	17.5	20.8
271453	2004 <i>EL</i> ₄₁	10 27.9 220°42'		0.5°/27.5 18			9328	1990 <i>DL</i> ₃	10 27.9 89°22'		3.4°/30.2 18		
9 18	2 38.04	+14 54.4	1.884	2.677	15.8	21.8	9 18	2 43.89	+22 9.9	1.589	2.361	19.1	17.3
9 28	2 34.01	+14 23.3	1.790	2.669	12.6	21.5	9 28	2 38.94	+22 33.8	1.525	2.383	15.6	17.2
10 8	2 27.49	+13 39.3	1.717	2.661	8.8	21.3	10 8	2 30.98	+22 40.7	1.479	2.404	11.5	17.0
10 18	2 19.00	+12 44.3	1.669	2.652	4.5	21.0	10 18	2 20.75	+22 29.3	1.455	2.425	7.1	16.8
10 28	2 9.41	+11 43.0	1.649	2.643	0.5	20.7	10 28	2 9.45	+22 1.0	1.459	2.445	3.6	16.6
11 7	1 59.85	+10 41.6	1.658	2.632	4.9	21.0	11 7	1 58.51	+21 20.8	1.489	2.465	5.2	16.8
11 17	1 51.40	+ 9 46.6	1.695	2.622	9.3	21.3	11 17	1 49.22	+20 35.5	1.547	2.485	9.2	17.0
11 27	1 44.96	+ 9 3.9	1.757	2.611	13.3	21.5	11 27	1 42.53	+19 53.0	1.630	2.504	13.0	17.3
21407	Jessicabaker	10 27.9 54°40'		0.6°/27.4 18			226386	2003 <i>OX</i> ₆	10 27.9 20°15'		4.4°/24.3 18		
9 18	2 35.43	+12 55.9	1.995	2.794	14.8	18.6	9 18	2 28.60	+ 7 36.5	1.441	2.285	17.3	18.8
9 28	2 31.62	+12 42.3	1.917	2.800	11.7	18.4	9 28	2 26.82	+ 6 13.9	1.389	2.299	13.5	18.6
10 8	2 25.62	+12 19.6	1.860	2.805	8.1	18.2	10 8	2 22.54	+ 4 42.3	1.357	2.315	9.3	18.4
10 18	2 17.94	+11 50.0	1.828	2.811	4.1	17.9	10 18	2 16.42	+ 3 9.7	1.350	2.332	5.4	18.2
10 28	2 9.43	+11 17.2	1.824	2.817	0.6	17.7	10 28	2 9.49	+ 1 45.4	1.368	2.350	4.8	18.2
11 7	2 1.07	+10 45.5	1.849	2.824	4.5	18.0	11 7	2 2.89	+ 0 38.1	1.411	2.369	8.0	18.5
11 17	1 53.76	+10 19.5	1.902	2.830	8.4	18.2	11 17	1 57.61	+ 0 6.9	1.479	2.390	11.8	18.8
11 27	1 48.27	+10 3.1	1.980	2.836	11.9								

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
344229	2001 SC	10 27.9 43°64'			4.4/30.9 18		483917	2006 BW ₄₄	10 27.9 282°66'			1.6/29.3 17	
9 18	2 37.76	+24 15.5	1.344	2.134	21.1	20.1	9 18	2 34.10	+19 30.1	2.300	3.072	13.9	21.9
9 28	2 34.75	+24 36.2	1.280	2.147	17.4	19.9	9 28	2 30.52	+19 27.8	2.200	3.062	11.3	21.7
10 8	2 28.46	+24 35.4	1.232	2.160	13.1	19.7	10 8	2 24.90	+19 13.7	2.121	3.052	8.2	21.5
10 18	2 19.59	+24 11.1	1.206	2.174	8.4	19.5	10 18	2 17.66	+18 47.9	2.067	3.042	4.7	21.3
10 28	2 9.46	+23 25.3	1.203	2.188	4.7	19.3	10 28	2 9.51	+18 12.4	2.041	3.032	1.7	21.1
11 7	1 59.66	+22 24.5	1.226	2.203	5.9	19.4	11 7	2 1.35	+17 31.1	2.044	3.022	3.7	21.2
11 17	1 51.61	+21 17.9	1.275	2.218	10.1	19.7	11 17	1 54.05	+16 48.5	2.076	3.012	7.3	21.4
11 27	1 46.36	+20 15.6	1.346	2.233	14.3	20.0	11 27	1 48.36	+16 9.8	2.135	3.002	10.7	21.6
86946	2000 HG ₈₅	10 27.9 225°68'			4.0/25.2 18		226957	2004 VC ₅₂	10 27.9 252°46'			2.9/25.5 18	
9 18	2 37.62	+ 5 40.2	1.634	2.455	16.6	18.5	9 18	2 35.69	+ 4 51.2	2.388	3.190	12.6	20.3
9 28	2 33.86	+ 4 58.4	1.557	2.453	13.2	18.3	9 28	2 31.48	+ 4 29.8	2.298	3.184	9.9	20.1
10 8	2 27.46	+ 4 10.5	1.502	2.452	9.2	18.0	10 8	2 25.38	+ 4 5.6	2.231	3.177	6.9	19.9
10 18	2 19.00	+ 3 21.7	1.470	2.450	5.4	17.8	10 18	2 17.83	+ 3 41.5	2.190	3.170	4.0	19.7
10 28	2 9.47	+ 2 38.6	1.465	2.449	4.2	17.8	10 28	2 9.51	+ 3 21.3	2.179	3.162	3.0	19.6
11 7	2 0.08	+ 2 7.4	1.487	2.447	7.4	17.9	11 7	2 1.23	+ 3 8.7	2.196	3.155	5.5	19.7
11 17	1 51.97	+ 1 52.8	1.535	2.445	11.5	18.2	11 17	1 53.77	+ 3 6.2	2.242	3.148	8.6	19.9
11 27	1 46.04	+ 1 57.1	1.607	2.444	15.2	18.4	11 27	1 47.82	+ 3 15.9	2.314	3.140	11.5	20.1
14198	1998 XZ ₇₃	10 27.9 25°04'			3.3/30.1 18		126765	2002 DF ₁₂	10 27.9 143°79'			0.1/27.8 18	
9 18	2 37.19	+21 5.0	1.590	2.378	18.4	16.4	9 18	2 37.16	+15 22.3	1.872	2.665	15.9	20.8
9 28	2 33.84	+21 34.7	1.516	2.384	15.1	16.2	9 28	2 33.20	+14 58.9	1.791	2.670	12.6	20.5
10 8	2 27.62	+21 49.0	1.460	2.391	11.1	16.0	10 8	2 26.84	+14 23.2	1.731	2.674	8.8	20.3
10 18	2 19.14	+21 46.7	1.427	2.399	6.8	15.8	10 18	2 18.64	+13 37.2	1.696	2.678	4.5	20.1
10 28	2 9.47	+21 28.8	1.420	2.407	3.4	15.6	10 28	2 9.51	+12 45.3	1.689	2.682	0.1	19.7
11 7	1 59.96	+20 59.5	1.439	2.416	5.1	15.7	11 7	2 0.53	+11 53.0	1.710	2.686	4.6	20.1
11 17	1 51.85	+20 24.9	1.484	2.425	9.2	16.0	11 17	1 52.72	+11 6.3	1.759	2.689	8.8	20.4
11 27	1 46.13	+19 52.1	1.554	2.435	13.1	16.3	11 27	1 46.89	+10 30.4	1.833	2.692	12.5	20.6
37070	2000 UT ₅₁	10 27.9 47°51'			1.4/26.7 18		270737	2002 QX ₁₄₄	10 27.9 66°55'			0.9/28.7 18	
9 18	2 33.94	+11 33.1	2.032	2.836	14.4	19.5	9 18	2 35.67	+16 54.0	2.250	3.030	14.0	21.2
9 28	2 30.41	+11 2.7	1.953	2.840	11.4	19.3	9 28	2 31.52	+16 52.5	2.177	3.045	11.1	21.0
10 8	2 24.76	+10 23.6	1.896	2.844	7.8	19.1	10 8	2 25.39	+16 40.9	2.125	3.061	7.8	20.8
10 18	2 17.53	+ 9 38.6	1.864	2.848	3.9	18.9	10 18	2 17.80	+16 20.2	2.099	3.077	4.2	20.6
10 28	2 9.49	+ 8 52.2	1.860	2.852	1.5	18.7	10 28	2 9.52	+15 52.8	2.101	3.093	0.9	20.4
11 7	2 1.60	+ 8 9.6	1.885	2.856	4.9	19.0	11 7	2 1.42	+15 22.6	2.132	3.110	3.6	20.7
11 17	1 54.70	+ 7 35.5	1.937	2.860	8.6	19.2	11 17	1 54.31	+14 53.5	2.192	3.126	7.2	20.9
11 27	1 49.55	+ 7 13.6	2.014	2.864	12.0	19.4	11 27	1 48.86	+14 29.8	2.279	3.142	10.3	21.1
165486	2001 BR ₂₀	10 27.9 265°59'			1.3/26.9 18		49407	1998 XC ₅₀	10 27.9 191°39'			2.4/26.1 18	
9 18	2 37.41	+11 8.7	1.935	2.736	15.2	20.7	9 18	2 37.75	+ 7 18.9	2.139	2.940	13.9	18.9
9 28	2 33.53	+10 51.0	1.835	2.719	12.1	20.4	9 28	2 33.31	+ 6 59.8	2.055	2.940	11.0	18.7
10 8	2 27.22	+10 24.5	1.756	2.702	8.4	20.2	10 8	2 26.75	+ 6 35.9	1.992	2.939	7.6	18.5
10 18	2 18.93	+ 9 51.7	1.702	2.685	4.3	19.9	10 18	2 18.56	+ 6 10.0	1.956	2.938	4.1	18.3
10 28	2 9.49	+ 9 16.3	1.676	2.668	1.4	19.6	10 28	2 9.52	+ 5 46.2	1.948	2.936	2.5	18.2
11 7	1 59.96	+ 8 43.4	1.678	2.650	5.3	19.9	11 7	2 0.57	+ 5 28.5	1.969	2.935	5.4	18.3
11 17	1 51.42	+ 8 18.0	1.708	2.632	9.5	20.1	11 17	1 52.59	+ 5 20.2	2.019	2.933	8.9	18.6
11 27	1 44.79	+ 8 4.3	1.763	2.614	13.4	20.3	11 27	1 46.35	+ 5 23.8	2.094	2.931	12.1	18.8
280426	2003 YD ₅₆	10 27.9 290°22'			1.0/26.9 17		45161	1999 XX ₁₂₃	10 27.9 111°73'			6.2/2.2 18 R	
9 18	2 33.31	+12 3.4	2.503	3.295	12.4	21.3	9 18	2 40.94	+31 43.9	1.698	2.429	19.6	19.4
9 28	2 29.77	+11 37.3	2.385	3.265	9.9	21.1	9 28	2 36.79	+31 56.3	1.622	2.442	16.6	19.2
10 8	2 24.33	+11 2.7	2.289	3.234	6.9	20.9	10 8	2 29.63	+31 44.5	1.563	2.456	13.2	19.0
10 18	2 17.38	+10 21.6	2.220	3.203	3.5	20.6	10 18	2 20.14	+31 5.4	1.526	2.469	9.5	18.8
10 28	2 9.50	+ 9 37.3	2.180	3.172	1.1	20.4	10 28	2 9.51	+29 59.6	1.514	2.481	6.7	18.7
11 7	2 1.49	+ 8 54.2	2.169	3.141	4.3	20.5	11 7	1 59.19	+28 32.5	1.528	2.494	6.6	18.7
11 17	1 54.14	+ 8 16.5	2.188	3.109	7.9	20.7	11 17	1 50.47	+26 53.7	1.570	2.505	9.3	18.9
11 27	1 48.19	+ 7 48.5	2.232	3.077	11.2	20.9	11 27	1 44.32	+25 14.2	1.638	2.517	12.7	19.1
368828	2006 CT ₁₇	10 27.9 166°07'			3.7/ 1.4 17		162293	1999 VY ₁₄₂	10 27.9 23°32'			1.1/28.7 18	
9 18	2 36.50	+29 4.0	3.234	3.935	11.6	22.2	9 18	2 35.65	+17 19.9	1.536	2.341	18.2	20.8
9 28	2 31.76	+29 20.1	3.136	3.940	9.8	22.1	9 28	2 32.60	+17 17.5	1.462	2.346	14.7	20.6
10 8	2 25.39	+29 23.9	3.060	3.945	7.7	22.0	10 8	2 26.75	+17 0.4	1.407	2.350	10.4	20.4
10 18	2 17.77	+29 14.5	3.009	3.949	5.5	21.8	10 18	2 18.70	+16 29.7	1.375	2.355	5.6	20.1
10 28	2 9.50	+28 52.0	2.987	3.952	3.9	21.7	10 28	2 9.52	+15 48.8	1.368	2.361	1.1	19.8
11 7	2 1.28	+28 18.4	2.994	3.955	4.0	21.7	11 7	2 0.51	+15 3.8	1.388	2.367	4.9	20.1
11 17	1 53.77	+27 37.0	3.032	3.958	5.7	21.9	11 17	1 52.90	+14 21.4	1.435	2.374	9.6	20.4
11 27	1 47.56	+26 51.9	3.098	3.960	7.9	22.0	11 27	1 47.63	+13 48.2	1.505	2.381	13.8	20.7
407104	2009 SK ₂₈₇	10 27.9 27°82'			2.2/29.8 17		472027	2013 YW ₈	10 27.9 1°71'			4.8/25.3 18	
9 18	2 33.62	+21 2.6	1.936	2.716	15.9	21.0	9 18	2 29.99	+ 6 38.1	1.031	1.896	21.0	20.3
9 28	2 30.41	+21 2.0	1.858	2.723	12.9	20.8	9 28	2 29.16	+ 5 55.8	0.971	1.893	16.7	20.0
10 8	2 24.91	+20 46.6	1.799	2.730	9.4	20.6	10 8	2 24.92	+ 5 4.1	0.929	1.892	11.6	19.7
10 18	2 17.65	+20 16.9	1.765	2.738	5.5	20.4	10 18	2 17.94	+ 4 10.4	0.907	1.892	6.6	19.5
10 28	2 9.51	+19 35.3	1.757	2.746	2.3	20.2	10 28	2 9.54	+ 3 24.3	0.907	1.894	5.1	19.4
11 7	2 1.51	+18 46.5	1.777	2.755	4.2	20.3	11 7	2 1.38	+ 2 55.2	0.929	1.897	9.2	19.6
11 17	1 54.63	+17 56.3	1.825	2.764	7.9	20.6	11 17	1 54.97	+ 2 48.8	0.973	1.903	14.2	19.9
11 27	1 49.64	+17 10.9	1.899	2.774	11.4	20.8	11 27	1 51.42	+ 3 7.4	1.037	1.910	18.8	20.2
488128	2015 VH ₁₁₇	10 27.9 324°21'			2.1/26.1 18		266900	2009 WN ₁₁₂	10 27.9 31°15'			9.9/20.2 18	
9 18	2 31.36	+10 43.3	1.867	2.684	15.0	21.0	9 18	2 32.81	- 9 58.8	1.638	2.470		

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
191582	Kikadolfi		10 27.9 346°85	1.4/26.8	18		136835	1997 UL ₁₉		10 27.9 258°44	1.1/26.6	18	
9 18	2 33.44	+10 27.2	2.032	2.840	14.3	19.9	9 18	2 30.11	+10 22.1	3.260	4.049	9.8	20.8
9 28	2 30.11	+10 12.4	1.947	2.836	11.3	19.7	9 28	2 26.61	+9 58.4	3.164	4.043	7.7	20.7
10 8	2 24.65	+9 50.4	1.883	2.832	7.8	19.5	10 8	2 21.79	+9 29.6	3.091	4.036	5.3	20.5
10 18	2 17.54	+9 23.7	1.844	2.828	3.9	19.2	10 18	2 15.97	+8 57.7	3.046	4.029	2.7	20.3
10 28	2 9.55	+8 56.1	1.833	2.825	1.5	19.1	10 28	2 9.63	+8 25.2	3.031	4.022	1.2	20.2
11 7	2 1.62	+8 31.8	1.850	2.822	4.8	19.3	11 7	2 3.32	+7 55.1	3.046	4.015	3.4	20.4
11 17	1 54.64	+8 14.9	1.895	2.820	8.7	19.5	11 17	1 57.56	+7 30.1	3.091	4.008	6.0	20.5
11 27	1 49.39	+8 8.6	1.965	2.818	12.1	19.7	11 27	1 52.83	+7 12.6	3.163	4.001	8.4	20.7
184955	2005 WZ ₁₀₁		10 27.9 294°92	1.4/26.4	18		48123	2001 FP ₁₀₁		10 27.9 144°38	1°1/29.0	18	
9 18	2 30.33	+9 34.3	3.017	3.811	10.4	20.2	9 18	2 37.34	+19 24.9	2.375	3.139	13.7	20.3
9 28	2 26.95	+9 10.4	2.912	3.794	8.2	20.0	9 28	2 32.79	+19 1.9	2.292	3.150	11.0	20.1
10 8	2 22.11	+8 41.4	2.831	3.777	5.6	19.8	10 8	2 26.27	+18 26.5	2.230	3.161	7.8	19.9
10 18	2 16.15	+8 9.2	2.777	3.759	2.9	19.6	10 18	2 18.30	+17 39.7	2.194	3.171	4.3	19.7
10 28	2 9.56	+7 36.7	2.752	3.742	1.5	19.5	10 28	2 9.62	+16 44.6	2.188	3.180	1.1	19.5
11 7	2 2.96	+7 7.2	2.758	3.725	3.8	19.6	11 7	2 1.11	+15 45.8	2.212	3.189	3.6	19.7
11 17	1 56.93	+6 43.6	2.792	3.708	6.6	19.8	11 17	1 53.57	+14 48.5	2.265	3.197	7.0	19.9
11 27	1 52.00	+6 28.4	2.854	3.691	9.2	19.9	11 27	1 47.66	+13 57.8	2.346	3.204	10.2	20.1
236343	2006 BV ₁₃₁		10 27.9 143°30	3.4/30.7	18		401405	2013 CA ₆₃		10 27.9 56°06	7°6/3.7	18	
9 18	2 40.25	+24 4.3	2.118	2.866	15.7	21.5	9 18	2 38.22	+34 45.5	1.925	2.633	18.2	20.8
9 28	2 35.51	+24 18.5	2.033	2.875	12.9	21.3	9 28	2 34.59	+35 26.8	1.842	2.638	15.8	20.6
10 8	2 28.40	+24 17.8	1.969	2.883	9.7	21.1	10 8	2 28.16	+35 46.4	1.775	2.644	13.1	20.4
10 18	2 19.45	+24 1.1	1.928	2.891	6.2	20.9	10 18	2 19.49	+35 40.4	1.730	2.650	10.2	20.3
10 28	2 9.55	+23 29.5	1.916	2.899	3.5	20.8	10 28	2 9.61	+35 7.2	1.709	2.656	8.1	20.2
11 7	1 59.79	+22 46.4	1.932	2.906	4.5	20.8	11 7	1 59.83	+34 9.4	1.713	2.662	7.7	20.1
11 17	1 51.16	+21 57.4	1.978	2.912	7.7	21.1	11 17	1 51.40	+32 53.7	1.744	2.668	9.4	20.3
11 27	1 44.50	+21 9.0	2.049	2.918	11.0	21.3	11 27	1 45.32	+31 29.5	1.801	2.675	12.0	20.4
257605	1999 RS ₂₀₀		10 27.9 31°75	4°0/30.4	18		157047	2003 SG ₈₀		10 27.9 74°35	5°1/2.1	18	
9 18	2 35.47	+23 6.7	1.099	1.915	23.3	19.6	9 18	2 36.23	+30 40.1	2.304	3.022	15.3	19.5
9 28	2 33.50	+23 21.1	1.044	1.928	19.1	19.4	9 28	2 32.26	+30 58.0	2.223	3.036	13.0	19.3
10 8	2 27.89	+23 10.8	1.004	1.942	14.1	19.2	10 8	2 26.09	+30 58.3	2.162	3.049	10.3	19.2
10 18	2 19.41	+22 34.8	0.983	1.957	8.7	18.9	10 18	2 18.27	+30 39.5	2.123	3.062	7.5	19.0
10 28	2 9.56	+21 36.7	0.985	1.973	4.3	18.7	10 28	2 9.62	+30 1.8	2.111	3.075	5.4	18.9
11 7	2 0.15	+20 25.0	1.011	1.990	6.1	18.9	11 7	2 1.13	+29 8.6	2.127	3.089	5.4	18.9
11 17	1 52.74	+19 11.3	1.060	2.008	11.1	19.2	11 17	1 53.71	+28 5.3	2.172	3.102	7.4	19.1
11 27	1 48.44	+18 6.8	1.131	2.026	15.7	19.6	11 27	1 48.12	+26 58.8	2.243	3.115	10.0	19.3
407091	2009 SF ₂₆₄		10 27.9 18°69	1°0/27.2	18		217470	2005 WZ ₂₅		10 27.9 319°17	0°9/28.7	18	
9 18	2 35.36	+11 5.6	1.937	2.743	15.0	20.7	9 18	2 34.53	+17 19.6	2.063	2.849	14.8	20.6
9 28	2 31.68	+11 0.4	1.859	2.746	11.8	20.5	9 28	2 31.06	+17 14.6	1.972	2.845	11.9	20.4
10 8	2 25.75	+10 48.0	1.802	2.750	8.2	20.2	10 8	2 25.39	+16 58.0	1.902	2.840	8.5	20.1
10 18	2 18.10	+10 30.4	1.770	2.754	4.1	20.0	10 18	2 17.98	+16 30.6	1.856	2.835	4.6	19.9
10 28	2 9.58	+10 11.0	1.766	2.759	1.1	19.8	10 28	2 9.63	+15 54.9	1.838	2.831	1.0	19.6
11 7	2 1.18	+9 53.9	1.790	2.764	4.7	20.1	11 7	2 1.31	+15 15.4	1.849	2.827	4.0	19.9
11 17	1 53.85	+9 42.8	1.842	2.770	8.7	20.3	11 17	1 53.97	+14 37.1	1.888	2.823	8.0	20.1
11 27	1 48.36	+9 41.1	1.918	2.775	12.2	20.6	11 27	1 48.40	+14 5.1	1.952	2.819	11.5	20.3
154592	2003 NS ₁		10 27.9 16°71	4°4/24.5	18		307508	2002 YX ₁₉		10 27.9 287°41	3°8/31.2	18	
9 18	2 32.10	+4 4.3	1.741	2.571	15.4	18.9	9 18	2 34.86	+25 44.1	1.996	2.753	16.2	20.6
9 28	2 29.24	+3 14.8	1.675	2.576	12.1	18.7	9 28	2 31.72	+25 48.9	1.891	2.736	13.6	20.4
10 8	2 24.10	+2 21.2	1.631	2.582	8.5	18.5	10 8	2 26.10	+25 36.0	1.805	2.720	10.4	20.1
10 18	2 17.25	+1 29.1	1.611	2.589	5.3	18.3	10 18	2 18.46	+25 4.0	1.742	2.703	6.9	19.9
10 28	2 9.59	+0 45.0	1.617	2.596	4.7	18.3	10 28	2 9.62	+24 13.6	1.705	2.687	4.1	19.7
11 7	2 2.12	+0 14.5	1.650	2.604	7.4	18.5	11 7	2 0.71	+23 8.9	1.696	2.670	4.9	19.7
11 17	1 55.79	+0 1.3	1.709	2.613	10.9	18.7	11 17	1 52.80	+21 56.4	1.715	2.654	8.3	19.9
11 27	1 51.34	+0 7.0	1.790	2.622	14.1	19.0	11 27	1 46.87	+20 44.4	1.759	2.637	12.0	20.1
446140	2013 EG ₇₈		10 27.9 345°62	2°7/25.9	18		402817	2007 EZ ₆₂		10 27.9 282°50	3°0/30.3	17	
9 18	2 33.23	+8 58.6	1.708	2.530	16.0	20.9	9 18	2 37.65	+21 51.4	2.194	2.953	14.9	21.4
9 28	2 30.35	+8 17.8	1.629	2.526	12.6	20.7	9 28	2 33.56	+22 18.6	2.095	2.946	12.2	21.2
10 8	2 25.03	+7 28.0	1.570	2.523	8.7	20.5	10 8	2 27.18	+22 33.9	2.017	2.938	9.1	21.0
10 18	2 17.82	+6 33.8	1.536	2.520	4.6	20.2	10 18	2 18.93	+22 36.2	1.963	2.930	5.8	20.8
10 28	2 9.61	+5 41.0	1.528	2.517	2.9	20.1	10 28	2 9.63	+22 25.7	1.937	2.922	3.2	20.6
11 7	2 1.50	+4 56.4	1.548	2.514	6.3	20.3	11 7	2 0.25	+22 5.0	1.939	2.914	4.4	20.6
11 17	1 54.53	+4 25.2	1.593	2.513	10.4	20.6	11 17	1 51.81	+21 38.0	1.970	2.906	7.7	20.8
11 27	1 49.55	+4 11.2	1.662	2.511	14.1	20.8	11 27	1 45.18	+21 10.2	2.028	2.898	11.0	21.0
382615	2002 NM ₇₁		10 27.9 359°02	22°0/24.9	18		275019	2009 UK ₂₆		10 27.9 195°39	2°2/26.2	18	
9 18	2 13.27	+54 55.4	0.937	1.641	33.6	19.8	9 18	2 36.22	+6 48.5	2.407	3.205	12.6	20.3
9 28	2 18.76	+57 23.5	0.884	1.632	32.2	19.7	9 28	2 31.87	+6 36.3	2.321	3.205	10.0	20.1
10 8	2 19.66	+59 3.1	0.837	1.626	30.5	19.5	10 8	2 25.65	+6 20.4	2.258	3.204	6.9	19.9
10 18	2 16.04	+59 40.7	0.798	1.623	28.4	19.3	10 18	2 18.01	+6 3.5	2.222	3.204	3.7	19.7
10 28	2 9.59	+59 3.7	0.767	1.623	26.1	19.2	10 28	2 9.64	+5 48.7	2.215	3.203	2.3	19.6
11 7	2 3.25	+57 7.3	0.748	1.627	23.9	19.0	11 7	2 1.34	+5 39.2	2.238	3.203	4.8	19.8
11 17	1 59.82	+53 57.5	0.743	1.634	22.4	19.0	11 17	1 53.89	+5 37.7	2.289	3.202	8.0	20.0
11 27	2 0.99	+49 53.7	0.754	1.645	22.0	19.0	11 27	1 47.94	+5 46.2	2.366	3.201	11.0	20.2
298506	2003 VK ₉		10 27.9 286°33	2°5/30.2	18		113286	2002 RW ₁₆₆		10 27.9 59°51	3°3/30.9	18	
9 18	2 33.65	+23 56.0	1.860	2.631	16.7	20.2	9 18	2 35.54	+24 21.1				

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V		
221435	2006 <i>AL</i> ₆	10 27.9 247°77' 1.8°/29.7 17						15183	3074 <i>T</i> ₋₁	10 27.9 252°37' 1.3°/29.3 17					
9 18	2 35.30	+20 26.0	2.619	3.376	12.7	21.3	9 18	2 34.64	+18 49.8	2.653	3.418	12.4	20.0		
9 28	2 31.26	+20 26.5	2.510	3.363	10.4	21.1	9 28	2 30.68	+18 49.7	2.549	3.407	10.1	19.8		
10 8	2 25.32	+20 16.0	2.424	3.350	7.6	20.9	10 8	2 24.90	+18 39.7	2.466	3.396	7.3	19.6		
10 18	2 17.90	+19 54.5	2.364	3.336	4.5	20.7	10 18	2 17.70	+18 20.0	2.409	3.384	4.1	19.4		
10 28	2 9.64	+19 23.5	2.332	3.322	1.9	20.5	10 28	2 9.71	+17 52.4	2.382	3.373	1.4	19.2		
11 7	2 1.33	+18 46.0	2.331	3.307	3.5	20.6	11 7	2 1.68	+17 19.9	2.384	3.361	3.3	19.3		
11 17	1 53.76	+18 6.0	2.358	3.292	6.7	20.8	11 17	1 54.38	+16 46.1	2.415	3.349	6.6	19.5		
11 27	1 47.63	+17 28.2	2.414	3.277	9.7	20.9	11 27	1 48.48	+16 15.4	2.474	3.337	9.6	19.7		
208164	2000 <i>OO</i> ₂₁	10 27.9 38°64' 10°2'/21.7 18						162864	2001 <i>EZ</i> ₄	10 27.9 158°71' 0°9'/27.3 18					
9 18	2 34.14	- 1 4.8	0.981	1.849	21.7	18.8	9 18	2 37.53	+12 31.2	1.999	2.794	14.9	20.9		
9 28	2 32.12	- 3 9.7	0.948	1.866	17.4	18.7	9 28	2 33.36	+12 12.0	1.916	2.797	11.8	20.7		
10 8	2 26.63	- 5 13.4	0.933	1.885	13.2	18.5	10 8	2 26.93	+11 43.7	1.855	2.800	8.2	20.4		
10 18	2 18.64	- 7 1.3	0.938	1.904	10.5	18.4	10 18	2 18.76	+11 8.5	1.819	2.802	4.1	20.2		
10 28	2 9.65	- 8 19.1	0.966	1.925	10.9	18.5	10 28	2 9.71	+10 30.3	1.812	2.805	0.9	20.0		
11 7	2 1.31	- 8 58.4	1.014	1.946	13.8	18.8	11 7	2 0.76	+ 9 53.9	1.833	2.806	4.7	20.3		
11 17	1 54.96	- 8 58.1	1.083	1.968	17.4	19.1	11 17	1 52.89	+ 9 24.1	1.883	2.808	8.7	20.5		
11 27	1 51.46	- 8 22.1	1.170	1.991	20.6	19.4	11 27	1 46.87	+ 9 4.8	1.957	2.810	12.2	20.7		
4408	Zlatá Koruna	10 27.9 96°51' 0°3'/28.2 18						235377	2003 <i>WL</i> ₄₄	10 27.9 340°96' 4°5'/31.5 18					
9 18	2 38.26	+17 19.8	1.539	2.340	18.4	16.6	9 18	2 36.75	+25 35.7	2.123	2.871	15.6	20.1		
9 28	2 34.55	+16 48.3	1.470	2.351	14.7	16.4	9 28	2 33.04	+26 17.4	2.028	2.866	13.1	19.9		
10 8	2 28.02	+16 0.2	1.419	2.363	10.3	16.2	10 8	2 26.93	+26 45.6	1.953	2.861	10.1	19.7		
10 18	2 19.35	+14 57.9	1.392	2.374	5.3	15.9	10 18	2 18.88	+26 57.7	1.902	2.856	7.1	19.5		
10 28	2 9.66	+13 47.1	1.392	2.386	0.3	15.6	10 28	2 9.71	+26 53.3	1.877	2.852	4.8	19.4		
11 7	2 0.26	+12 35.5	1.419	2.397	5.1	16.0	11 7	2 0.48	+26 34.1	1.881	2.848	5.3	19.4		
11 17	1 52.34	+11 31.2	1.473	2.408	9.9	16.3	11 17	1 52.24	+26 4.5	1.911	2.845	8.0	19.5		
11 27	1 46.81	+10 41.0	1.551	2.418	14.0	16.6	11 27	1 45.91	+25 30.5	1.968	2.842	11.1	19.7		
39202	2000 <i>XB</i> ₁₈	10 27.9 100°75' 5°3'/31.9 18						364086	2005 <i>YP</i> ₈₉	10 27.9 349°99' 2°5'/25.9 18					
9 18	2 44.41	+27 13.8	1.923	2.657	17.5	18.7	9 18	2 32.95	+ 8 27.2	1.862	2.680	15.0	20.5		
9 28	2 39.13	+27 59.6	1.849	2.675	14.6	18.5	9 28	2 29.93	+ 7 54.6	1.781	2.676	11.8	20.3		
10 8	2 31.10	+28 28.7	1.794	2.693	11.4	18.3	10 8	2 24.66	+ 7 14.8	1.722	2.673	8.2	20.1		
10 18	2 20.92	+28 38.1	1.762	2.711	8.0	18.2	10 18	2 17.64	+ 6 31.5	1.687	2.670	4.4	19.9		
10 28	2 9.66	+28 26.9	1.758	2.728	5.5	18.1	10 28	2 9.71	+ 5 49.9	1.679	2.668	2.7	19.7		
11 7	1 58.59	+27 58.1	1.781	2.745	5.9	18.1	11 7	2 1.87	+ 5 15.6	1.699	2.666	5.9	19.9		
11 17	1 48.93	+27 17.2	1.832	2.762	8.6	18.3	11 17	1 55.07	+ 4 53.0	1.746	2.665	9.7	20.2		
11 27	1 41.60	+26 31.8	1.909	2.778	11.7	18.5	11 27	1 50.10	+ 4 45.3	1.817	2.664	13.2	20.4		
348335	2005 <i>EK</i> ₃₆	10 27.9 275°27' 8°5'/ 3.5 18						445770	2011 <i>WD</i> ₁₃₇	10 27.9 47°06' 0°4'/28.3 15					
9 18	2 40.33	+35 22.5	1.965	2.663	18.2	20.7	9 18	2 34.85	+16 48.2	1.766	2.564	16.5	21.8		
9 28	2 36.63	+36 24.8	1.862	2.650	16.0	20.5	9 28	2 31.54	+16 26.8	1.692	2.573	13.2	21.6		
10 8	2 29.91	+37 7.9	1.777	2.636	13.5	20.3	10 8	2 25.80	+15 51.7	1.638	2.581	9.2	21.3		
10 18	2 20.59	+37 26.5	1.712	2.623	10.9	20.1	10 18	2 18.21	+15 4.9	1.608	2.590	4.8	21.1		
10 28	2 9.66	+37 16.5	1.671	2.609	9.0	20.0	10 28	2 9.71	+14 10.6	1.605	2.599	0.4	20.8		
11 7	1 58.49	+36 38.4	1.655	2.595	8.7	20.0	11 7	2 1.41	+13 14.9	1.630	2.608	4.5	21.1		
11 17	1 48.52	+35 37.0	1.665	2.581	10.3	20.0	11 17	1 54.32	+12 24.1	1.683	2.618	8.8	21.4		
11 27	1 40.98	+34 21.4	1.700	2.567	12.9	20.2	11 27	1 49.25	+11 44.0	1.760	2.627	12.6	21.7		
518319	2017 <i>BZ</i> ₈₀	10 27.9 97°27' 4°5'/23.6 18						517454	2014 <i>OU</i> ₃₃₆	10 27.9 55°77' 2°7'/30.1 18					
9 18	2 33.11	+ 1 0.2	2.381	3.193	12.3	21.6	9 18	2 38.09	+20 54.7	2.119	2.884	15.2	21.4		
9 28	2 29.35	+ 0 5.9	2.311	3.200	9.8	21.5	9 28	2 33.83	+21 20.7	2.035	2.890	12.4	21.2		
10 8	2 23.85	- 0 49.6	2.264	3.207	7.1	21.3	10 8	2 27.29	+21 34.8	1.972	2.896	9.1	21.0		
10 18	2 17.07	- 1 41.7	2.244	3.214	4.9	21.2	10 18	2 18.97	+21 36.1	1.934	2.903	5.6	20.8		
10 28	2 9.69	- 2 25.4	2.252	3.220	4.7	21.2	10 28	2 9.72	+21 25.4	1.923	2.910	2.8	20.6		
11 7	2 2.44	- 2 56.4	2.288	3.227	6.7	21.3	11 7	2 0.54	+21 5.6	1.941	2.916	4.2	20.7		
11 17	1 56.05	- 3 12.0	2.352	3.233	9.3	21.5	11 17	1 52.41	+20 40.9	1.987	2.923	7.6	21.0		
11 27	1 51.10	- 3 11.0	2.440	3.240	11.8	21.7	11 27	1 46.14	+20 16.6	2.060	2.930	10.9	21.2		
274249	2008 <i>OU</i> ₁₃	10 27.9 22°84' 2°3'/29.8 17						511554	2014 <i>UL</i> ₂₂₅	10 27.9 347°85' 0°0'/28.5 17					
9 18	2 33.57	+20 51.2	1.902	2.684	16.1	20.9	9 18	2 12.88	+14 52.8	36.718	37.485	1.0	23.2		
9 28	2 30.46	+20 55.5	1.824	2.691	13.0	20.7	9 28	2 12.21	+14 49.2	36.620	37.483	0.8	23.2		
10 8	2 25.02	+20 45.2	1.767	2.699	9.5	20.5	10 8	2 11.45	+14 45.1	36.546	37.482	0.5	23.2		
10 18	2 17.81	+20 20.7	1.734	2.707	5.6	20.3	10 18	2 10.63	+14 40.5	36.501	37.480	0.3	23.2		
10 28	2 9.69	+19 44.1	1.727	2.716	2.4	20.1	10 28	2 9.77	+14 35.7	36.485	37.479	0.0	23.1		
11 7	2 1.71	+19 0.2	1.747	2.725	4.2	20.3	11 7	2 8.91	+14 30.8	36.500	37.477	0.3	23.1		
11 17	1 54.86	+18 14.5	1.796	2.735	7.9	20.5	11 17	2 8.09	+14 26.0	36.545	37.475	0.5	23.2		
11 27	1 49.92	+17 33.2	1.869	2.746	11.5	20.8	11 27	2 7.33	+14 21.4	36.619	37.474	0.8	23.2		
129784	1999 <i>JB</i> ₅₇	10 27.9 79°57' 0°9'/27.4 18						141554	2002 <i>GV</i> ₅₈	10 27.9 97°00' 1°4'/26.9 17					
9 18	2 44.18	+12 21.4	1.387	2.197	19.6	19.7	9 18	2 38.94	+13 53.4	1.483	2.294	18.5	20.4		
9 28	2 39.26	+12 12.7	1.332	2.221	15.5	19.5	9 28	2 35.08	+13 4.8	1.419	2.309	14.6	20.2		
10 8	2 31.25	+11 53.0	1.297	2.244	10.7	19.3	10 8	2 28.37	+12 1.7	1.374	2.323	10.0	20.0		
10 18	2 20.95	+11 25.1	1.284	2.268	5.3	19.1	10 18	2 19.54	+10 48.4	1.354	2.338	5.0	19.7		
10 28	2 9.68	+10 53.9	1.298	2.291	1.0	18.8	10 28	2 9.74	+ 9 32.0	1.359	2.352	1.5	19.5		
11 7	1 58.92	+10 25.2	1.339	2.314	5.8	19.2	11 7	2 0.29	+ 8 21.2	1.393	2.366	5.9	19.9		
11 17	1 49.95	+10 4.7	1.406	2.337	10.6	19.6	11 17	1 52.38	+ 7 23.4	1.452	2.379	10.6	20.2		
11 27	1 43.69	+ 9 56.7	1.497	2.359	14.7	19.9	11 27	1 46.89	+ 6 43.9	1.536	2.393	14.7	20.4		
340240	2006 <i>BJ</i> ₉₃	10 27.9 23°39' 2°7'/26.1 18						358193	2006 <i>SH</i> ₁₀₄	10 27.9 325°31' 1°0'/28.6 18					
9 18	2 35.45	+ 9 19.0	1.529	2.354	17.4	20.2	9 18	2 36.33	+16 15.8	1.789	2.585	16.4	21.4		
9 28	2 32.35	+ 8 40.4	1.458	2.357	13.7	20.0	9 28								

EPHEMERIDES

10 27.9

10 27.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
93443	2000 <i>SK</i> ₃₃₆	10 27.9	60°33	2.4/29.8	18		188740	2005 <i>UU</i> ₁₃₈	10 27.9	95°70	0.4/27.6	18	
9 18	2 36.88	+21 30.2	1.604	2.390	18.4	19.4	9 18	2 34.45	+14 16.6	2.161	2.954	14.0	21.0
9 28	2 33.52	+21 24.3	1.530	2.399	14.9	19.2	9 28	2 30.77	+13 51.8	2.078	2.957	11.1	20.8
10 8	2 27.39	+21 0.2	1.476	2.409	10.9	18.9	10 8	2 25.07	+13 16.8	2.017	2.961	7.7	20.6
10 18	2 19.10	+20 18.3	1.444	2.418	6.4	18.7	10 18	2 17.82	+12 34.0	1.982	2.965	3.9	20.4
10 28	2 9.75	+19 21.8	1.438	2.428	2.6	18.5	10 28	2 9.80	+11 47.1	1.975	2.968	0.4	20.1
11 7	2 0.62	+18 17.0	1.459	2.438	4.8	18.7	11 7	2 1.89	+11 1.0	1.997	2.972	4.2	20.4
11 17	1 52.90	+17 12.0	1.507	2.448	9.1	18.9	11 17	1 54.94	+10 20.3	2.047	2.976	7.9	20.7
11 27	1 47.52	+16 14.6	1.580	2.458	13.1	19.2	11 27	1 49.65	+9 49.4	2.124	2.979	11.2	20.9
43693	2731 <i>P-L</i>	10 27.9	359°02	3°1/25.1	18		405295	2003 <i>TC</i> ₃₆	10 27.9	52°58	4°2/31.2	18	
9 18	2 30.20	+9 4.3	1.867	2.689	14.8	18.7	9 18	2 39.81	+24 32.2	2.135	2.881	15.6	20.8
9 28	2 27.72	+7 57.4	1.789	2.687	11.6	18.5	9 28	2 35.24	+25 16.9	2.057	2.895	12.9	20.6
10 8	2 23.10	+6 40.8	1.733	2.686	8.0	18.3	10 8	2 28.30	+25 48.3	2.000	2.908	9.9	20.5
10 18	2 16.84	+5 19.7	1.703	2.686	4.4	18.1	10 18	2 19.53	+26 4.4	1.966	2.922	6.7	20.3
10 28	2 9.76	+4 1.1	1.700	2.686	3.3	18.0	10 28	2 9.80	+26 4.7	1.960	2.936	4.4	20.2
11 7	2 2.80	+2 52.3	1.725	2.686	6.4	18.2	11 7	2 0.18	+25 51.6	1.982	2.951	5.0	20.3
11 17	1 56.85	+1 59.0	1.776	2.687	10.1	18.4	11 17	1 51.67	+25 29.0	2.032	2.965	7.7	20.4
11 27	1 52.65	+1 25.1	1.851	2.689	13.4	18.7	11 27	1 45.11	+25 2.8	2.109	2.980	10.6	20.7
99472	2002 <i>CO</i> ₁₁₂	10 27.9	189°58	1°1/28.7	18		113512	2002 <i>TS</i> ₁₁	10 27.9	301°15	0°8/27.3	17	
9 18	2 42.72	+17 8.7	1.826	2.605	16.7	20.3	9 18	2 34.30	+11 49.4	2.354	3.148	13.0	19.7
9 28	2 37.91	+17 10.8	1.736	2.604	13.5	20.1	9 28	2 30.56	+11 38.6	2.261	3.141	10.3	19.5
10 8	2 30.37	+17 0.5	1.667	2.603	9.6	19.8	10 8	2 24.90	+11 20.7	2.191	3.135	7.1	19.3
10 18	2 20.66	+16 38.1	1.622	2.601	5.2	19.6	10 18	2 17.75	+10 57.6	2.146	3.129	3.6	19.1
10 28	2 9.76	+16 5.9	1.605	2.598	1.1	19.3	10 28	2 9.81	+10 32.2	2.130	3.123	0.8	18.9
11 7	1 58.91	+15 28.5	1.617	2.595	4.6	19.5	11 7	2 1.89	+10 8.2	2.144	3.117	4.1	19.1
11 17	1 49.29	+14 51.6	1.658	2.591	9.1	19.8	11 17	1 54.78	+9 49.1	2.185	3.111	7.6	19.3
11 27	1 41.89	+14 21.2	1.723	2.586	13.0	20.0	11 27	1 49.19	+9 38.3	2.254	3.105	10.8	19.5
437386	2013 <i>WL</i> ₄₀	10 27.9	340°12	2°1/26.9	18		284891	Kona	10 27.9	325°74	1°4/26.6	18	
9 18	2 36.80	+9 16.4	1.244	2.081	19.9	20.5	9 18	2 28.96	+15 15.4	1.853	2.664	15.3	19.9
9 28	2 34.31	+9 13.8	1.167	2.072	15.9	20.2	9 28	2 26.98	+14 3.0	1.755	2.646	12.2	19.7
10 8	2 28.49	+9 2.8	1.109	2.065	11.1	19.9	10 8	2 22.77	+12 33.3	1.679	2.629	8.4	19.4
10 18	2 19.91	+8 46.6	1.072	2.058	5.7	19.6	10 18	2 16.78	+10 50.2	1.628	2.613	4.2	19.1
10 28	2 9.76	+8 30.3	1.060	2.051	2.2	19.3	10 28	2 9.81	+9 0.7	1.605	2.597	1.6	18.9
11 7	1 59.63	+8 19.9	1.072	2.046	6.9	19.6	11 7	2 2.85	+7 13.9	1.610	2.581	5.5	19.1
11 17	1 51.08	+8 20.7	1.107	2.042	12.3	19.9	11 17	1 56.84	+5 38.5	1.642	2.566	9.8	19.4
11 27	1 45.31	+8 36.5	1.165	2.038	17.1	20.2	11 27	1 52.63	+4 21.8	1.699	2.552	13.7	19.6
334569	2002 <i>TH</i> ₈₉	10 27.9	338°73	4°5/30.7	18		391628	2007 <i>VU</i> ₁₁₈	10 27.9	21°40	3°6/25.5	18	
9 18	2 37.49	+23 9.1	1.384	2.176	20.5	20.3	9 18	2 36.51	+5 35.7	1.769	2.587	15.7	20.8
9 28	2 34.84	+23 42.8	1.302	2.171	17.1	20.1	9 28	2 32.81	+5 3.1	1.694	2.588	12.4	20.5
10 8	2 28.88	+23 57.8	1.237	2.166	12.9	19.8	10 8	2 26.70	+4 25.7	1.640	2.590	8.6	20.3
10 18	2 20.13	+23 51.5	1.193	2.162	8.3	19.5	10 18	2 18.73	+3 47.9	1.611	2.592	5.0	20.1
10 28	2 9.76	+23 23.9	1.173	2.158	4.7	19.3	10 28	2 9.82	+3 15.2	1.609	2.593	3.8	20.1
11 7	1 59.38	+22 39.4	1.179	2.155	6.1	19.4	11 7	2 1.05	+2 52.9	1.634	2.596	6.7	20.2
11 17	1 50.55	+21 46.0	1.209	2.152	10.5	19.6	11 17	1 53.45	+2 44.7	1.686	2.598	10.5	20.5
11 27	1 44.52	+20 53.7	1.262	2.150	15.0	19.9	11 27	1 47.84	+2 52.9	1.762	2.600	14.0	20.7
132835	2002 <i>RJ</i> ₁₇	10 27.9	130°52	2°1/26.3	18		150198	1998 <i>RE</i> ₂₅	10 27.9	46°24	1°6/26.6	18	
9 18	2 35.14	+10 24.0	1.895	2.703	15.1	20.0	9 18	2 34.66	+12 30.1	1.746	2.557	16.2	19.0
9 28	2 31.59	+9 42.9	1.815	2.704	11.9	19.8	9 28	2 31.09	+11 40.0	1.695	2.586	12.6	18.9
10 8	2 25.78	+8 52.7	1.756	2.706	8.2	19.6	10 8	2 25.27	+10 39.5	1.665	2.615	8.5	18.7
10 18	2 18.22	+7 57.0	1.723	2.707	4.2	19.3	10 18	2 17.86	+9 33.1	1.660	2.644	4.3	18.5
10 28	2 9.78	+7 1.3	1.718	2.708	2.2	19.2	10 28	2 9.82	+8 27.1	1.683	2.674	1.7	18.4
11 7	2 1.47	+6 11.5	1.740	2.709	5.6	19.4	11 7	2 2.17	+7 27.9	1.733	2.704	5.3	18.7
11 17	1 54.23	+5 33.0	1.790	2.710	9.5	19.7	11 17	1 55.78	+6 40.8	1.811	2.734	9.1	19.0
11 27	1 48.86	+5 9.6	1.865	2.710	13.0	19.9	11 27	1 51.34	+6 9.5	1.913	2.764	12.4	19.3
220797	2004 <i>TD</i> ₂₁₆	10 27.9	352°84	3°6/25.3	18		13808	Davewilliams	10 27.9	4°91	6°9/3.9	18	
9 18	2 31.50	+6 32.5	1.677	2.508	15.9	19.9	9 18	2 34.93	+35 17.5	2.211	2.909	16.4	16.8
9 28	2 29.05	+5 52.1	1.600	2.502	12.5	19.7	9 28	2 31.69	+35 47.8	2.119	2.909	14.3	16.7
10 8	2 24.21	+5 5.1	1.544	2.498	8.7	19.4	10 8	2 26.02	+35 58.2	2.046	2.909	11.8	16.5
10 18	2 17.49	+4 16.4	1.512	2.494	5.0	19.2	10 18	2 18.44	+35 45.5	1.994	2.910	9.3	16.3
10 28	2 9.79	+3 32.2	1.506	2.491	3.8	19.1	10 28	2 9.82	+35 8.7	1.966	2.911	7.4	16.2
11 7	2 2.18	+2 58.7	1.526	2.489	6.9	19.3	11 7	2 1.26	+34 10.3	1.965	2.912	7.0	16.2
11 17	1 55.69	+2 40.5	1.572	2.488	10.8	19.5	11 17	1 53.80	+32 55.9	1.991	2.914	8.4	16.3
11 27	1 51.16	+2 40.5	1.641	2.487	14.4	19.8	11 27	1 48.31	+31 33.5	2.043	2.916	10.8	16.5
325658	2009 <i>SN</i> ₃₄₅	10 27.9	171°56	2°2/25.6	18		71574	2000 <i>DJ</i> ₄₉	10 27.9	50°65	9°5/17.7	18	
9 18	2 32.68	+9 17.5	2.445	3.246	12.4	20.8	9 18	2 31.78	-11 53.5	2.082	2.898	13.7	18.7
9 28	2 29.08	+8 23.3	2.361	3.247	9.7	20.7	9 28	2 28.57	-13 50.2	2.041	2.912	11.6	18.6
10 8	2 23.73	+7 21.9	2.301	3.248	6.7	20.5	10 8	2 23.45	-15 38.8	2.023	2.926	10.0	18.5
10 18	2 17.09	+6 16.8	2.267	3.249	3.6	20.3	10 18	2 16.94	-17 10.7	2.030	2.941	9.5	18.5
10 28	2 9.80	+5 12.9	2.263	3.250	2.4	20.2	10 28	2 9.83	-18 18.8	2.062	2.956	10.1	18.6
11 7	2 2.60	+4 15.3	2.288	3.251	5.0	20.4	11 7	2 2.95	-18 58.7	2.119	2.970	11.6	18.7
11 17	1 56.21	+3 28.4	2.342	3.251	8.1	20.6	11 17	1 57.07	-19 9.6	2.198	2.986	13.4	18.9
11 27	1 51.24	+2 55.3	2.422	3.251	10.9	20.8	11 27	1 52.80	-18 53.3	2.296	3.001	15.1	19.0
448400	2009 <i>RL</i> ₁₁	10 27.9	62°11	2°7/25.3	18		161200	2002 <i>TO</i> ₂₅₄	10 27.9	293°74	2°4/26.5	18	
9 18	2 32.50	+9 13.8	2.069	2.880									

EPHEMERIDES

10 27.9

10 28.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
315118	2007 <i>EU</i> ₆₅		10 27.9 133°72	3°5/24.2	18		436114	2009 <i>SF</i> ₃₆₀		10 27.9 347°74	2°7/26.8	18	
9 18	2 33.28	+ 4 5.1	2.540	3.345	11.8	21.1	9 18	2 37.09	+ 7 38.7	1.189	2.031	20.3	20.4
9 28	2 29.40	+ 3 8.5	2.467	3.354	9.3	20.9	9 28	2 34.67	+ 7 41.6	1.116	2.024	16.2	20.1
10 8	2 23.87	+ 2 8.5	2.417	3.362	6.5	20.7	10 8	2 28.83	+ 7 38.5	1.061	2.017	11.3	19.9
10 18	2 17.14	+ 1 9.3	2.394	3.369	4.1	20.6	10 18	2 20.14	+ 7 32.7	1.027	2.012	6.0	19.5
10 28	2 9.84	+ 0 15.9	2.401	3.377	3.7	20.6	10 28	2 9.85	+ 7 29.4	1.016	2.007	2.8	19.3
11 7	2 2.67	- 0 27.5	2.437	3.384	5.8	20.7	11 7	1 59.61	+ 7 33.8	1.030	2.004	7.3	19.6
11 17	1 56.30	- 0 57.6	2.501	3.391	8.5	20.9	11 17	1 51.01	+ 7 50.2	1.067	2.002	12.7	19.9
11 27	1 51.28	- 1 12.6	2.590	3.397	11.0	21.1	11 27	1 45.30	+ 8 21.6	1.126	2.000	17.5	20.2
442849	2013 <i>AA</i> ₁₂₂		10 27.9 43°37	3°5/25.5	18		421449	2014 <i>MK</i> ₄₃		10 27.9 62°28	3°5/31.5	18	
9 18	2 35.99	+ 6 11.1	1.783	2.601	15.6	20.9	9 18	2 34.64	+26 12.1	2.186	2.933	15.2	20.5
9 28	2 32.35	+ 5 33.5	1.710	2.605	12.3	20.7	9 28	2 31.07	+26 10.4	2.104	2.944	12.6	20.3
10 8	2 26.35	+ 4 50.3	1.659	2.609	8.5	20.5	10 8	2 25.34	+25 51.9	2.043	2.954	9.6	20.1
10 18	2 18.54	+ 4 6.2	1.632	2.613	4.9	20.3	10 18	2 18.00	+25 16.4	2.006	2.965	6.3	20.0
10 28	2 9.84	+ 3 26.7	1.632	2.617	3.7	20.2	10 28	2 9.86	+24 25.5	1.995	2.976	3.8	19.8
11 7	2 1.30	+ 2 57.6	1.660	2.621	6.6	20.4	11 7	2 1.88	+23 23.7	2.014	2.987	4.3	19.9
11 17	1 53.92	+ 2 42.7	1.714	2.626	10.4	20.6	11 17	1 54.95	+22 16.8	2.060	2.998	7.2	20.1
11 27	1 48.50	+ 2 44.4	1.792	2.630	13.8	20.9	11 27	1 49.80	+21 11.6	2.134	3.009	10.3	20.3
517591	2014 <i>WL</i> ₁₁₈		10 27.9 314°62	1°3/27.3	17		226654	2004 <i>FV</i> ₁₃₄		10 27.9 131°95	2°3/29.8	16	
9 18	2 40.43	+11 24.9	1.310	2.133	19.9	21.0	9 18	2 41.35	+21 22.7	1.943	2.706	16.4	21.3
9 28	2 37.01	+11 18.8	1.234	2.131	15.9	20.8	9 28	2 36.52	+21 20.7	1.865	2.720	13.3	21.1
10 8	2 30.27	+11 2.0	1.177	2.128	11.1	20.5	10 8	2 29.21	+21 3.5	1.807	2.733	9.7	20.9
10 18	2 20.80	+10 37.0	1.142	2.126	5.6	20.2	10 18	2 20.00	+20 31.2	1.774	2.746	5.7	20.7
10 28	2 9.83	+10 8.6	1.131	2.124	1.4	19.9	10 28	2 9.87	+19 46.1	1.768	2.758	2.4	20.5
11 7	1 58.96	+ 9 43.3	1.147	2.122	6.4	20.2	11 7	1 59.95	+18 53.1	1.792	2.769	4.3	20.7
11 17	1 49.70	+ 9 27.1	1.187	2.120	11.8	20.5	11 17	1 51.30	+17 58.5	1.844	2.780	8.1	20.9
11 27	1 43.25	+ 9 25.1	1.249	2.119	16.5	20.8	11 27	1 44.74	+17 8.7	1.923	2.790	11.7	21.2
347508	1999 <i>RJ</i> ₂₅		10 27.9 29°64	4°7/30.8	18		155198	2005 <i>UO</i> ₄₃₂		10 28.0 184°25	1°1/27.1	18	
9 18	2 38.55	+22 46.4	1.337	2.132	21.0	19.3	9 28	2 34.21	+12 8.4	1.866	2.747	12.1	21.4
9 28	2 35.50	+23 33.2	1.274	2.144	17.3	19.1	10 8	2 27.62	+11 28.3	1.802	2.747	8.4	21.2
10 8	2 29.14	+24 1.7	1.229	2.158	13.0	18.9	10 18	2 19.22	+10 40.6	1.764	2.747	4.2	20.9
10 18	2 20.15	+24 9.2	1.205	2.173	8.4	18.7	10 28	2 9.88	+ 9 49.8	1.754	2.746	1.2	20.7
10 28	2 9.83	+23 55.8	1.204	2.188	4.9	18.5	11 7	2 0.64	+ 9 1.6	1.773	2.745	5.0	21.0
11 7	1 59.79	+23 26.2	1.229	2.205	6.1	18.6	11 17	1 52.49	+ 8 21.3	1.820	2.744	9.0	21.2
11 17	1 51.49	+22 47.6	1.279	2.222	10.1	18.9	11 27	1 46.27	+ 7 53.3	1.893	2.742	12.7	21.4
11 27	1 46.01	+22 9.2	1.352	2.240	14.2	19.2	12 7	1 42.44	+ 7 40.2	1.986	2.739	15.6	21.6
214964	2007 <i>YX</i> ₄₆		10 27.9 1°51	2°9/25.9	18		441904	2010 <i>EZ</i> ₁₀₂		10 28.0 89°03	0°5/28.4	18	
9 18	2 33.77	+ 8 16.9	1.589	2.416	16.7	19.9	9 28	2 34.26	+16 39.8	1.782	2.656	13.0	21.8
9 28	2 30.98	+ 7 43.4	1.515	2.415	13.2	19.7	10 8	2 27.57	+16 8.0	1.736	2.675	9.1	21.6
10 8	2 25.62	+ 7 1.8	1.461	2.415	9.1	19.5	10 18	2 19.12	+15 25.2	1.714	2.695	4.7	21.4
10 18	2 18.25	+ 6 16.6	1.431	2.415	4.9	19.2	10 28	2 9.88	+14 35.2	1.721	2.714	0.5	21.2
10 28	2 9.84	+ 5 34.0	1.427	2.416	3.1	19.1	11 7	2 0.93	+13 43.8	1.755	2.733	4.3	21.5
11 7	2 1.56	+ 5 0.1	1.450	2.417	6.6	19.3	11 17	1 53.25	+12 56.6	1.818	2.751	8.4	21.8
11 17	1 54.53	+ 4 40.1	1.498	2.419	10.8	19.6	11 27	1 47.60	+12 19.1	1.907	2.770	12.0	22.0
11 27	1 49.62	+ 4 37.1	1.568	2.422	14.6	19.8	12 7	1 44.38	+11 54.4	2.017	2.788	14.9	22.3
474903	2005 <i>SH</i> ₁₉₆		10 27.9 66°26	0°8/27.5	16		479352	2013 <i>WA</i> ₀₅		10 28.0 284°93	3°1/30.2	18	
9 18	2 39.52	+14 5.5	1.415	2.228	19.1	21.8	9 28	2 33.68	+22 53.0	1.476	2.342	15.6	20.7
9 28	2 35.60	+13 37.6	1.359	2.250	15.1	21.6	10 8	2 27.85	+22 31.1	1.403	2.333	11.6	20.5
10 8	2 28.76	+12 56.2	1.323	2.271	10.4	21.4	10 18	2 19.57	+21 48.2	1.352	2.324	7.1	20.2
10 18	2 19.77	+12 4.8	1.309	2.293	5.2	21.1	10 28	2 9.88	+20 46.6	1.327	2.315	3.3	20.0
10 28	2 9.84	+11 9.4	1.321	2.314	0.8	20.9	11 7	2 0.18	+19 32.3	1.328	2.306	5.2	20.1
11 7	2 0.36	+10 17.3	1.360	2.336	5.6	21.3	11 17	1 51.82	+18 14.3	1.356	2.298	9.8	20.3
11 17	1 52.52	+ 9 35.4	1.425	2.357	10.3	21.6	11 27	1 45.92	+17 2.5	1.407	2.289	14.2	20.5
11 27	1 47.19	+ 9 8.6	1.514	2.379	14.4	21.9	12 7	1 43.06	+16 4.5	1.480	2.280	18.0	20.8
215440	2002 <i>LD</i> ₄₇		10 27.9 66°70	5°3/24.5	18		515984	2015 <i>RR</i> ₁₉₈		10 28.0 18°39	3°6/25.1	18	
9 18	2 38.96	+ 6 0.7	1.291	2.126	19.4	19.9	9 28	2 30.42	+ 5 40.6	1.749	2.645	11.9	20.7
9 28	2 35.17	+ 4 37.3	1.246	2.150	15.2	19.7	10 8	2 25.01	+ 4 44.6	1.696	2.647	8.3	20.5
10 8	2 28.42	+ 3 6.9	1.222	2.175	10.5	19.5	10 18	2 17.88	+ 3 47.3	1.669	2.650	4.8	20.3
10 18	2 19.55	+ 1 38.1	1.220	2.200	6.4	19.3	10 28	2 9.89	+ 2 54.6	1.669	2.653	3.8	20.3
10 28	2 9.85	+ 0 21.2	1.245	2.225	5.7	19.4	11 7	2 2.04	+ 2 12.9	1.696	2.656	6.7	20.5
11 7	2 0.71	- 0 35.3	1.295	2.249	8.9	19.6	11 17	1 55.29	+ 1 46.4	1.750	2.659	10.3	20.7
11 17	1 53.32	- 1 6.7	1.369	2.274	13.0	19.9	11 27	1 50.39	+ 1 38.0	1.827	2.663	13.7	20.9
11 27	1 48.47	- 1 12.1	1.464	2.298	16.5	20.2	12 7	1 47.79	+ 1 47.6	1.924	2.667	16.4	21.1
487056	2014 <i>OA</i> ₇₃		10 27.9 46°39	5°1/23.4	18		443335	2014 <i>GV</i> ₄		10 28.0 228°87	0°8/28.7	18	
9 18	2 33.25	+ 1 5.7	2.039	2.859	13.8	20.4	9 28	2 33.81	+17 2.8	1.874	2.745	12.5	22.0
9 28	2 29.82	+ 0 3.8	1.971	2.865	10.9	20.2	10 8	2 27.46	+16 43.1	1.802	2.739	8.9	21.8
10 8	2 24.39	- 0 59.9	1.926	2.871	7.9	20.1	10 18	2 19.20	+16 11.9	1.754	2.733	4.8	21.5
10 18	2 17.48	- 1 59.8	1.907	2.877	5.6	19.9	10 28	2 9.89	+15 32.0	1.734	2.727	0.9	21.2
10 28	2 9.85	- 2 49.6	1.915	2.884	5.4	20.0	11 7	2 0.59	+14 48.0	1.743	2.721	4.3	21.5
11 7	2 2.39	- 3 24.2	1.951	2.890	7.6	20.1	11 17	1 52.35	+14 5.6	1.780	2.714	8.5	21.7
11 17	1 55.92	- 3 40.5	2.013	2.897	10.5	20.3	11 27	1 46.04	+13 30.4	1.843	2.707	12.2	21.9
11 27	1 51.10	- 3 37.4	2.098	2.903	13.3	20.5	12 7	1 42.19	+13 6.5	1.927	2.700	15.4	22.1
368030	2012 <i>GX</i> ₂₇		10 27.9 124°53	3°0/25.0	18		116842	2004 <i>FN</i> ₄₂		10 28.0 76°48	2°8/25.7	18	
9 18	2 33.26	+ 5 11.4	2.519	3.324	11.9	21.1	9 28	2 31.68	+ 7 47.0	1.800	2.692	11.9	19.9
9 28	2 29.44	+ 4 30.9	2.441	3.328	9.4	21.0	10 8	2 25.78	+ 6 52.8	1.753	2.703	8.2	19.7
10 8	2 23.94	+ 3 46.9	2.387	3.333	6.5	20.8	10 18	2 18.22	+ 5 55.6	1.732	2.714	4.4	19.5
10 18	2 17.20	+ 3 2.9	2.359	3.337	3.9	20.6	10 28	2 9.89	+ 5 1.1	1.738	2.725	2.9	19.5
10 28	2 9.85	+ 2 23.0	2.360	3.342	3.2	20.6	11 7	2 1.78	+ 4 15.4	1.773	2.737	6.0	19.7
11 7	2 2.61	+ 1 51.4	2.391	3.346	5.4	20.8	11 17	1 54.80	+ 3 42.9	1.834	2.748	9.7	19.9
11 17	1 56.16	+ 1 31.0	2.450	3.350	8.2	20.9	11 27	1 49.68	+ 3 26.7	1.920	2.759	12.9	20.2
11 27	1 51.08	+ 1 23.8	2.534	3.354	10.8	21.1	12 7	1 46.83	+ 3 27.3	2.026	2.770	15.7	20.4